laservision

WE PROTECT YOUR EYES

Laser Safety Products

Edition 20

Filters and Protection Levels for continuous wave operation

Filters and Protection Levels for continuous wave operation (flat/flat)

Protection Level	Wavelength 180–315	315–400	400–700 nm	700–1400 nm	1400 –3000 nm	3000–10600 nm
DL10	T27 T37					
DL9	T60 T01 T13 T12 T66					
DL8	T28	T37 315–532 nm		T35 1030–1064 nm		
DL7		P12 180–360 nm		T07 1050–1400 nm T62 990–1064 nm T27 1045–1100 nm T37 1045–1100 nm T93 1048–1064 nm T26 1000–1400 nm		
DL6	P2009	T01 315–515 nm T13 315–532 nm T27 315–532 nm T12 315–578 nm	T24 532 nm P25 457–515 nm T83 530–535 nm T48 690 nm–1320 nm T58 690 nm–755 nm	T23 750–840 nm T85 780–815 nm T73 1050–1400 nm T07 900–1050 nm T87 1020–1100 nm T06 1000–1400 nm		
DL5	P1205	T60 –380 nm T28 315–532, 750–1100 nm P1008 190–532 nm P2009 315–420, 850–1065 nm	P1004 T01 528 nm T34 627–650 nm T25 580–590 nm P1000–315–532 nm P1001 660–710 nm P1010 585–605 nm P1011 690–710 nm T84 680–710 nm	P1205 755–840 nm T43 970–1000 nm T44 800–840 nm T92 1040–1084 nm T68 750–1100 nm T58 755–1320 nm P1001 730–790 nm T62 808–990 nm P1002 800–1100 nm P1000–890–1065 nm T96 1030–1400 nm P1004 700–820 nm	T73 2780–3000 nm T07 1400–3000 nm T26 1400–2100;2800–3000 nm	T08 9000–11000 nm T73 10600 nm T96 3200–11000 nm
DL4		P1205 315–375 nm T66 315–515 nm	P1001 630–660 nm P04 665–685 nm	P1001 710–730 / 790–800 nm P1205 730–755 / 840–855 nm P02 › 830–905 nm P1002 770– 800 nm T44 790–800, 840–860 nm T23 840–850 nm P1000 › 830–890 nm T06 950–1000 nm T96 950–1030 nm T73 950–1000 nm T43 960–970 nm T04 960–1400 nm T26 950–1000 nm	T96 1400–2200 nm T96 2800–3200 nm P2009, 820–850, 1065–1080nm T26 2100–2800 nm	T08 5400 nm A2 9000–11000 nm A2 5400 nm T26 10600 nm
DL3			P1001 610–630 nm T47 610–800 nm P25 ›515–530 nm P1011 630–690 nm	P1001 800–820 nm P2009 790–820 nm T43 925–960 nm T43 1000–1010 nm T44 780–790 nm P1000–790–830/1065–1100nm T96 900–950 nm	T06 1400–2200, 2780–3000 nm T48 1320–1550 nm T70 2900–3000 nm P1009 2750–3000 nm P2009 2750–3000nm T96 2400–2800 nm	T06 5400+10600 nm T48 10600 nm T35 5400 nm T35 9000–10600 nm P1007 9000–11000nm T68 10600 nm
DL2			T47 580–610 nm P1001 600–610 nm T58 620–690 nm	P02 780–800 nm T04 1400–1700 nm T96 850–900 nm	T35 2000–2200 nm	P1009 9000–11000nm
DL1		P1005 315–520 nm, 700–1000 nm				

Filters and Protection Levels for pulsed operation

Filters and Protection Levels for pulsed operation › 100 ns (flat/flat)

Protection Level	Wavelength 180–315	315–400	400–700 nm	700–1400 nm	1400–3000 nm	3000–10600 nm
IL8		T60 –380 nm		T35 1030–1064 nm		
		T37 315–532 nm		T37 1030–1100 nm		
				T73 1050–1400 nm		
		T01 315–515 nm		T06 1050–1400 nm		
				T26 1050–1400 nm		
		T13 315–532 nm		T07 1050–1400 nm		
		T12 315–575 nm		T68 750–1100 nm		
				T62 808–1064 nm		
				T72 1064 nm		
			T58 690 nm–755 nm			
				T26 1050–1400 nm		
IL7				T23 750–840 nm		
		P12 –360 nm				
				P1002 980–1065 nm		
			T12 515–578 nm	T06 1000–1050 nm		
				T26 1000–1050 nm		
		T27 315–532 nm		T27 1030–1100 nm		
			T25 580–590 nm	T73 1000–1050 nm		
			P1011 690–710 nm	P1000 ›1025–1065 nm		
			T48 690–1320 nm			
				P1205 755–840 nm		
		T28 315–532, 750–1100 nm				
				T93 1048–1064 nm		
				T58 755–1050 nm		
IL6				P1002 800–980 nm		
		P1000 315–532 nm		P1000 ›935–1025 nm		
				T07 900–1050 nm		T08 9000–11000 nm
			P25 457–515 nm	P2009 940–‹1065 nm		
			P1010 600–605 nm			
			T83 530–535 nm	T85 780–815 nm		
	P1008 190–532 nm			T87 1020–1100 nm		
			T84 680–710 nm			
IL5	T60		T34 627–650 nm	P1001 730–790 nm	T07 1400–3000 nm	T96 3200–11000 nm
	T01		T01 528 nm	T43 970–1000 nm	T26 1400–2100 nm	
				T44 800–840 nm	T26 2800–3000 nm	
	T13			P1000 ›890–935 nm		
	T12		P1001 660–710 nm	T92 1040–1080 nm		
	T37		P1010 585–600 nm	T58 1050–1320 nm		
	T27			T96 1030–1400 nm		
	T28	P2009 315–420, 850–940 nm				
				P1004 700–820 nm		
				P1002 1065–1100 nm		
IL4				P1001 710–730 / 790–800 nm		
			P04 665–685 nm	P1002 770–800 nm	T70 2900–3000 nm	T08 5400 nm
			P1001 630–660 nm	T44 790–800, 840–860 nm		
				P1000 ›830–890 nm		
	T66	T66 315–515 nm		P2009 820–850, 1065–1080 nm	T73 2780–3000 nm	A2 9000–11000 nm
				P16 790–910 nm	T06 2780–3000 nm	A2 5400 nm
				T73 950–1000 nm	T26 2100–2800 nm	T35 5400 nm
				T23 840–850 nm		T35 9000–11000 nm
				T26 950–1000 nm	T96 1400–2200 nm	T73 10600 nm
				T06 950–1000 nm	T96 2800–3200 nm	T06 5400, 10600 nm
				T43 960–970 nm		T68 10600 nm
				T04 960–1400 nm		T48 10600 nm
				P1205 730–755, 840–855 nm		
				T96 950–1030 nm		T26 10600 nm
IL3	P2009		P25 515–530 nm	P1000 790–830/1065–1100 nm	T06 1400–2200 nm	P12 10600 nm
			P1011 630–690 nm	T43 925–960 nm	P2009 2750–3000 nm	
				T43 1000–1010 nm	P1009 2750–3000 nm	
				T48 1320–1550 nm		
			T47 610–800 nm	P2009 790–820 nm		
			P1001 610–630 nm	T96 900–950 nm	T96 2400–2800 nm	
IL2			T47 580–610 nm	T96 850–900 nm	T04 1400–1800 nm	P1007 9000–11000 nm
			P1001 600–610 nm	P1001 800–820 nm	T35 2000–2200 nm	P1009 9000–11000 nm
IL1		P1005 315–520, 700–1000 nm				

Filters and Protection Levels for q-switched operation

Filters and Protection Levels for q-switched operation 10^{-9}–10^{-7} s (flat/flat)

Protection Level	Wavelength 180–315	315–400	400–700 nm	700–1400 nm	1400–3000 nm	3000–10600 nm
RL8		**T60** –380 nm		**T73** 1050–1400 nm		
		T01 315–515 nm		**T06** 1050–1400 nm		
				T07 1050–1400 nm		
				T62 808–1064 nm		
		T12 315–515 nm		**T68** 750–1100 nm		
			T58 690 nm–755 nm			
				T26 1050–1400 nm		
RL7						
				P1002 980–1065 nm		
		P12 315–360 nm		**T26** 1000–1050 nm		
				T06 1000–1050 nm		
			T12 515–578 nm	**P1000** 1025–1065 nm		
			P1011 690–710 nm	**T27** 1030–1100 nm		
				T37 1030–1100 nm		
			T48 755–1050 nm			
				P1205 755–840 nm		
				T28 750–1100 nm		
				T73 1000–1050 nm		
RL6	**P1008** 190–532 nm			**T84** 680–710 nm		
			P25 457–515 nm			
		P1000 315–532 nm		**T85** 780–815 nm		
		T37 315–532 nm		**P1002** 800–980 nm		
			P1010 600–605 nm	**T07** 900–1050 nm		
				P1000 935–1025 nm		
				T87 1020–1100 nm		
				T35 1030–1064 nm		
				P2009 940–1065 nm		
				T93 1048–1064 nm		
RL5	**T60**			**P1001** 730–790 nm		
	T01		**T83** 530–535 nm	**P1000** 890–935 nm	**T07** 1400–3000 nm	**T08** 5400 nm
	T13		**P1001** 660–710 nm	**T44** 800–840 nm		
	T12			**T43** 970–1000 nm		**T08** 9000–11000 nm
	T37			**T92** 1048–1064 nm		
	T27	**T27** 315–532 nm				
	T28	**P1205** 315–375 nm	**P1010** 585–600 nm	**T58** 1050–1320 nm		
				T96 1030–1400 nm		
				P1004 700–820 nm		
				P2009 850–940 nm		
				P1002 1065 –1100 nm		
RL4	**T66**		**P04** 665–685 nm	**P1001** 710–730 / 790–800 nm		
				P1002 770–800 nm		
	P1205	**T66** 315–515 nm		**T44** 790–800, 840–860 nm		
	190-315nm		**T01** 528 nm	**P1000** 830–890 nm		**A2** 9000–11000 nm
		T13 315–532 nm		**T06** 950–1000 nm		**A2** 5400 nm
			P1001 630–660 nm	**T43** 960–970 nm		
		T28 315–532 nm		**T26** 950–1000 nm	**T96** 1400–2200 nm	
				T73 950–1000 nm	**T96** 2800–3200 nm	
				P1205 730–755, 840–855 nm		
				P2009 820–850, 1065–1080 nm		
				T96 950–1030 nm		
RL3	**P12**			**T43** 925–960; 1000–1010 nm	**T06** 1400–2200 nm	
			P25 515–530 nm	**P1000** 790–830 / 1065–1100	**P1009** 2750–3000 nm	
			T47 610–800 nm			
			P1001 610–630 nm	**T96** 900–950 nm	**T96** 2400–2800 nm	
	P2009			**P2009** 790–820, 2750–3000 nm		
				T48 1320–1550 nm		
RL2			**T47** 580–610 nm	**T96** 850–900 nm		**T35** 9000–11000 nm
			P1001 600–610 nm	**P1001** 800–820 nm		**T35** 5400 nm
						P1007 9000–11000 nm
						P1009 9000–11000 nm
RL1		**P1005** 315–520, 700–1000 nm				

Filters and Protection Levels for mode-locked lasers < 1ns (flat/flat)

Protection Level	Wavelength					
	180–315	315–400	400–700 nm	700–1400 nm	1400–3000 nm	3000–10600 nm
L10				**T48** 795–805 nm **T58** 755–805 nm		
L9				**T23** 795–805 nm		
L8				**T48** 720–795 nm **T48** 805–900 nm **T58** 700–755 nm **T58** 805–900 nm		
L7				**T58** 755–1050 nm		
L6		**T37** 315–532 nm		**T37** 1030–1100 nm **T35** 1030–1100 nm		
L5		**T27** 315–532 nm		**T27** 1045–1100 nm		

Filters and Protection Levels for alignment protection (flat/flat)

Protection Level	Wavelength						
	442 nm	488 nm	515 nm	532 nm	620–644 nm	633 nm	630–690 nm
R4		**T15**	**T15**				
R3			**T556**	**T564**		**T58**	
R2	**T549**		**P07** 500–520 nm	**T74**	**P04**	**T48**	**T82** **P1004** 660–675 nm
R1			**T536**	**P2005**	**P03**	**T68**	**T81** **P08** 670 nm **P1002** 650–680 nm **P1004** 625–650 nm
			P1005 520–700 nm				

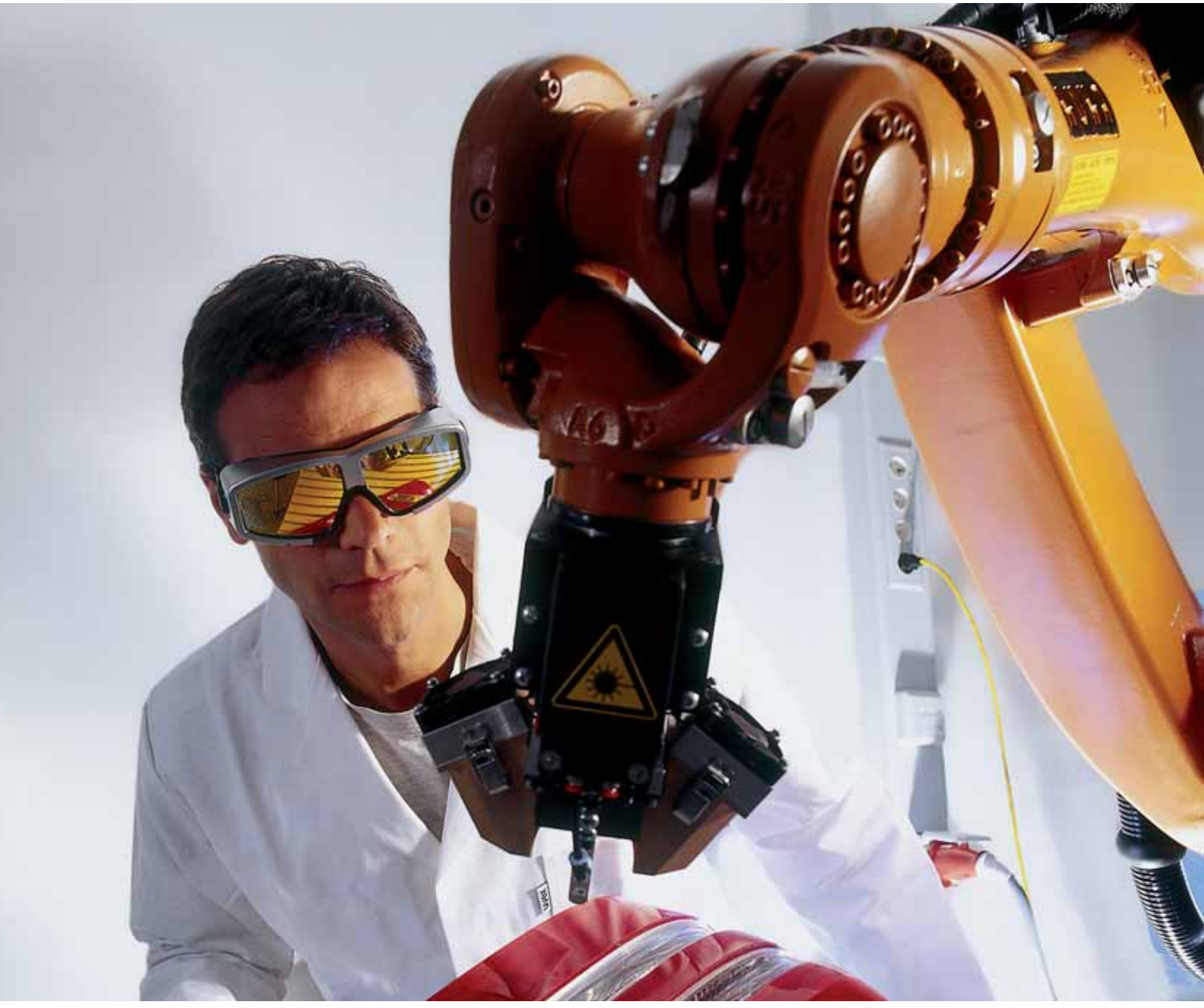
Additional filters are available on request. Please contact your local representative!

IMPORTANT: Please note, that the marked protection level of the glasses depend also on the scale number of the frame.

Easy selection according to the standard is provided by the EYEPRO Software from LASERVISION.

Product Specifications

Standard filter



General statements with respect to filter specifications

* Filter thickness is subject to variations in dependence of the natural properties of the glass melt. Indicated thickness is an average value only, which may be different between production lots.

** Transmission curves are typical curves only. Given values and curves are not guaranteed. LASERVISION only specifies protection levels and optical densities.

*** Due to the printing process the view through the real filter may differ from the shown transmitted spectral colours.

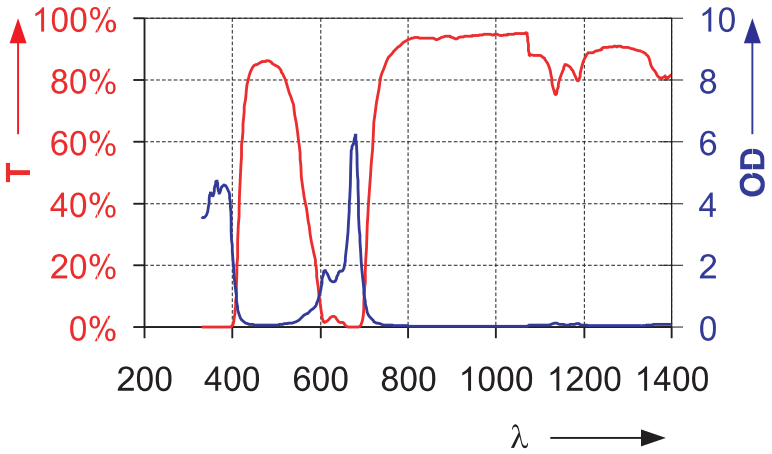
and Transmission Curves

Filter P03

Filter	P03
	Alignment Protection
Colour	aqua
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	50 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE
Part number	620.P0003.00	–
620 – 644	R1	–

Transmission Curve P03**

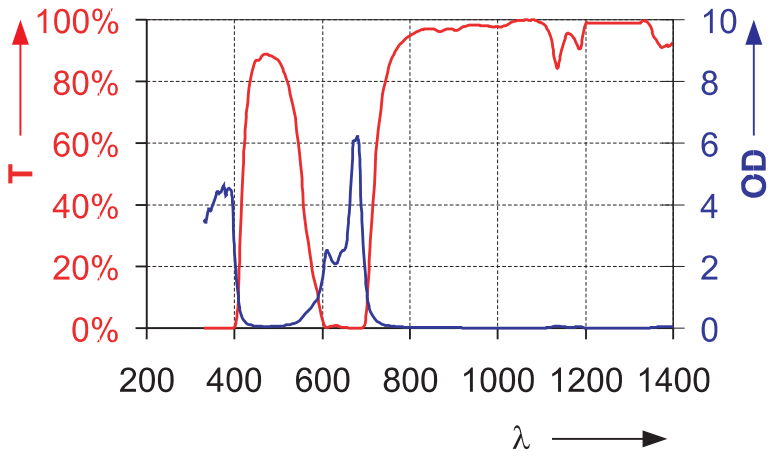


Filter P04

Filter	P04
	Alignment and Full Protection
Colour	aqua
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	40 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

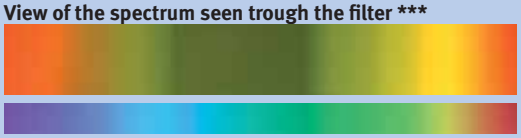
Frame	SKYLINE	LAMBDA ONE
Part number	620.P0004.00	–
DIR 665–685	L4	–
620–644	R2	–

Transmission Curve P04**



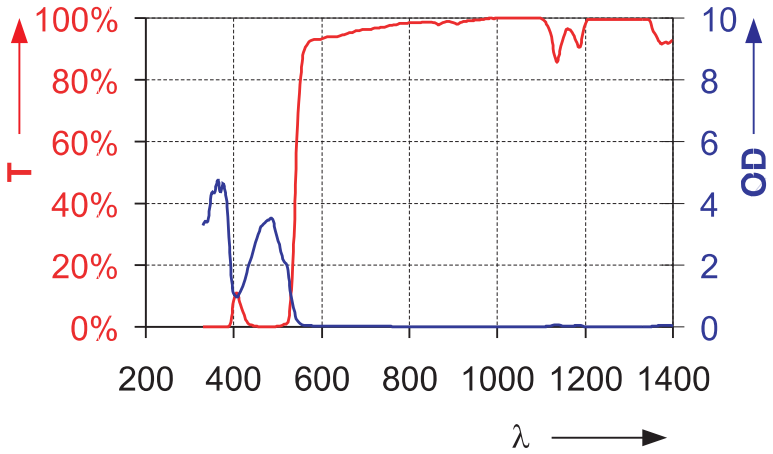
Plastic Filters for Laser Safety Eyewear

Filter P07

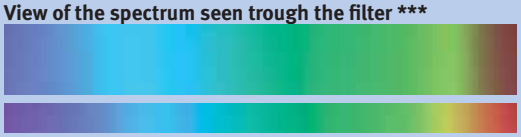
Filter	P07
	Alignment Protection
Colour	orange
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	60 %
Visual Brightness	very good
Colour View	good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE
Part number	620.P0007.00	–
500–520	R2	–

Transmission Curve Filter P07**

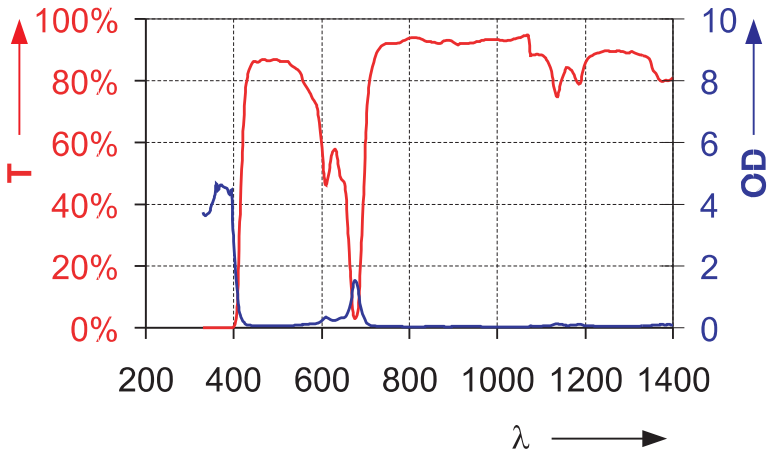


Filter P08

Filter	P08
	Alignment Protection
Colour	aqua
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	very good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

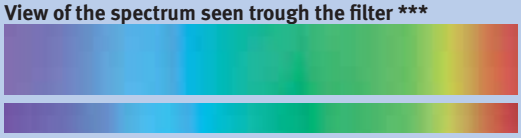
Frame	SKYLINE	LAMBDA ONE
Part number	620.P0008.00	–
670	R1	–

Transmission Curve Filter P08**



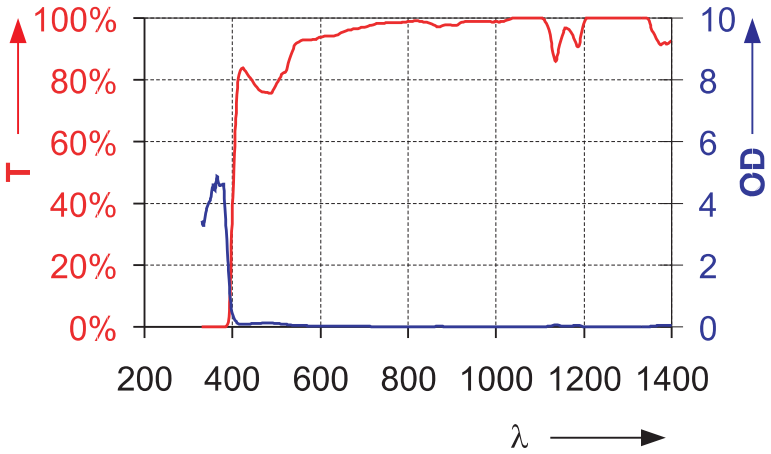
Plastic Filters for Laser Safety Eyewear

Filter P12

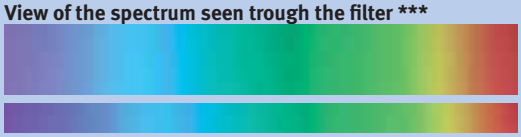
Filter	P12
	Full protection
Colour	yellow
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	very good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE
Part number	620.P0012.00	–
D 180–315	L7	–
R 180–315	L3	–
DIR ›315–360	L7	–
D 10600	L2	–
I 10600	L3	–

Transmission Curve Filter P12**

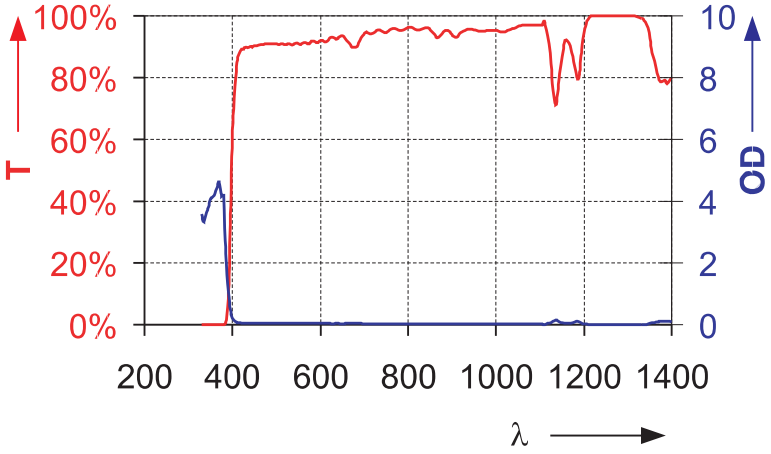


Filter PA2

Filter	PA2
	Full protection
Colour	clear
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	90 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 5 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

	reinforced Frame		
Frame	VISION	ALL STAR	PROTECTOR
Part number	015.P00A2.00	012.P00A2.00	018.P00A2.00
DIR 5400	L4	L4	L4
DIR 9000–11000	L4	L4	L4

Transmission Curve Filter PA2**



Plastic Filters for Laser Safety Eyewear

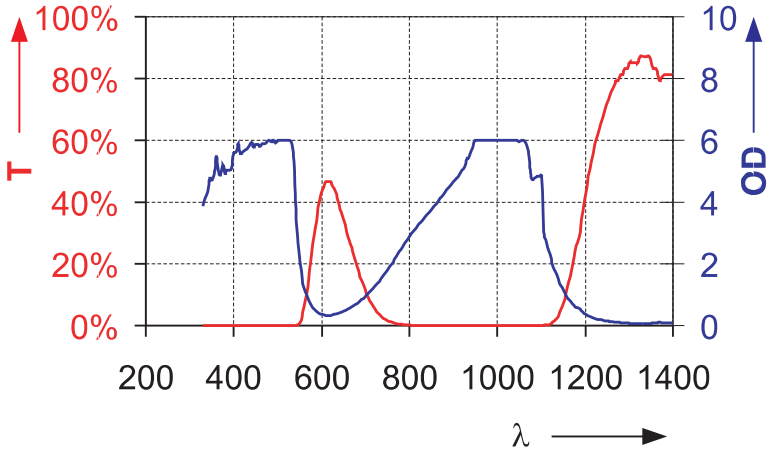
Filter P1000

Filter	P1000
	Full protection
Colour	orange-brown
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	20 %
Visual Brightness	good
Colour View	restricted
Filter Thickness	approx. 3 mm*
View of the spectrum seen trough the filter ***	

View of the spectrum without filter

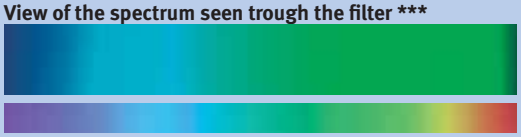
Frame	SKYLINE	LAMBDA ONE
Part number	620.P1000.00	700.P1000.00
D 315-532	L5	L5
IR 315-532	L6	L6
DIR 790-830	L3	L3
DIR ›830-890	L4	L4
DIR ›890-935	L5	L5
D ›935-1065	L5	L5
IR ›935-1025	L6	L6
IR ›1025-1065	L7	L7
DIR ›1065-1100	L3	L3

Transmission Curve Filter P1000**



Filter P1001

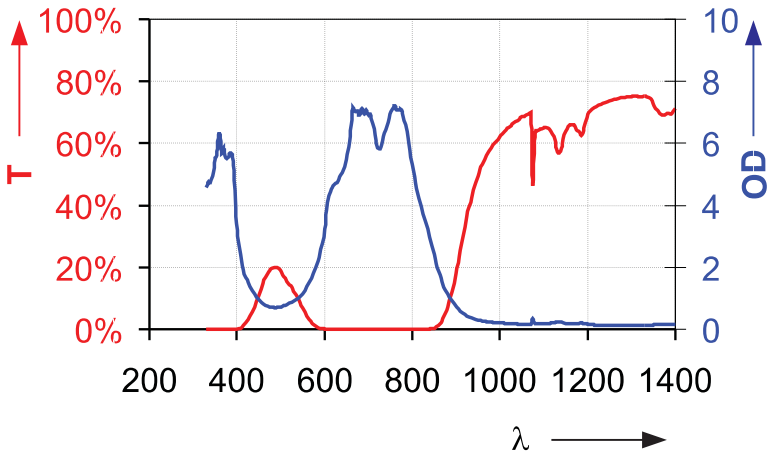
Filter	P1001
	Full protection
Colour	blue-green
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	10 %
Visual Brightness	sufficient
Colour View	restricted
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	



View of the spectrum without filter

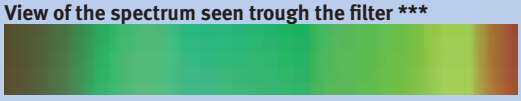
Frame	SKYLINE	LAMBDA ONE
Part number	620.P1001.00	700.P1001.00
DIR 600 – ‹610	L2	L2
DIR 610 – ‹630	L3	L3
DIR 630 – ‹660	L4	L4
DIR 660 – ‹710	L5	L5
DIR 710 – ‹730	L4	L4
DIR 730 – ‹790	L5	L5
DIR 790 – ‹800	L4	L4
DIR 800 – 820	L3	L3

Transmission Curve Filter P1001**



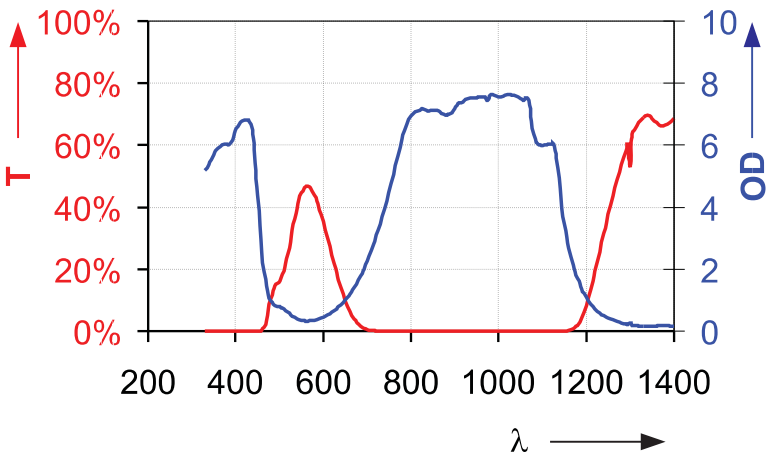
Plastic Filters for Laser Safety Eyewear

Filter P1002

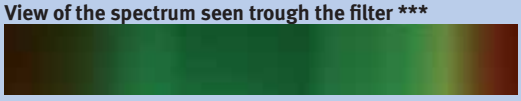
Filter	P1002
	Alignment and Full Protection
Colour	bright green
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	35 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE	SPLIT SHIELD
Part number	620.P1002.00	700.P1002.00	019.P1002.00
DIR 770 – <800	L4	L4	L4
D 800 – 1100	L5	L5	L5
IR 800 – 980	L6	L6	L6
IR >980 – 1065	L7	L7	L7
IR >1065 – 1100	L5	L5	L5
650 – 680	R1	R1	R1

Transmission Curve Filter P1002**

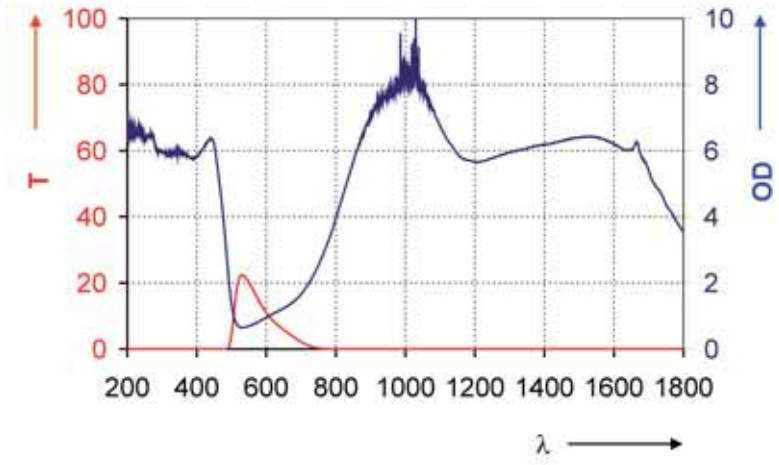


Filter P1003

Filter	P1003
	Full Protection
Colour	dark green
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	CE
VLT (approx.)	10 %
Visual Brightness	restricted
Colour View	limited
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
	
View of the spectrum without filter	

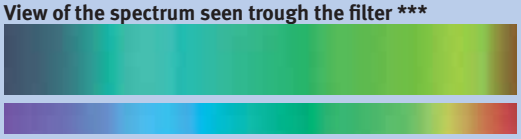
	reinforced Frame		
Frame	VISION	SKYLINE	LAMBDA ONE
Part number	015.P1003.00	620.P1003.00	700.P1003.00
DIR 900 – <1060	L5	L5	L5
D >1060 – <1400	L5	L5	L5
IR 1060 – 1090	L7	L7	L7
IR >1090 – <1400	L6	L6	L6
DIR 1400 – 1650	L3	L3	L3

Transmission Curve Filter P1003**



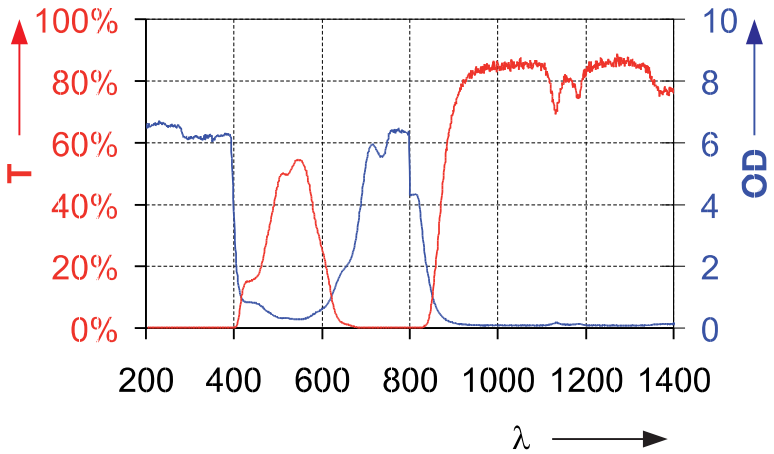
Plastic Filters for Laser Safety Eyewear

Filter P1004

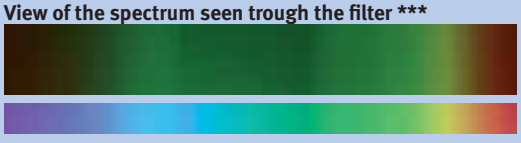
Filter	P1004
	Alignment and Full Protection
Colour	bright green
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	42 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE
Part number	620.P1004.00	700.P1004.00
DIR 700–820	L5	L5
625–650	R1	R1
660–675	R2	R2

Transmission Curve Filter P1004**

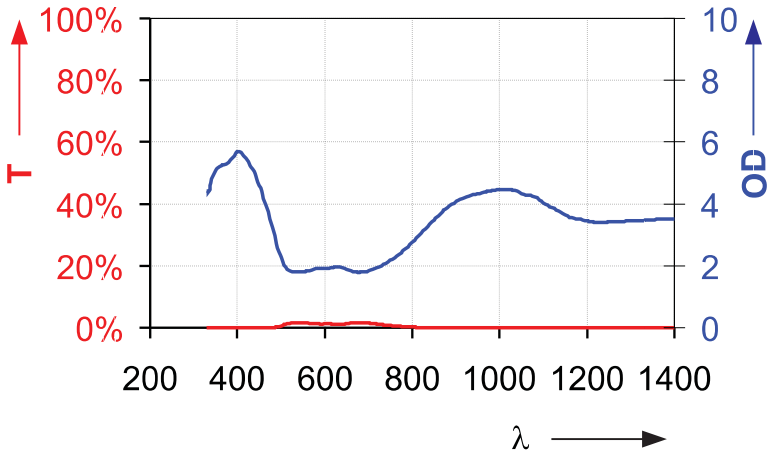


Filter P1005

Filter	P1005
	Alignment and Full Protection
Colour	green
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	5 %
Visual Brightness	sufficient
Colour View	limited
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

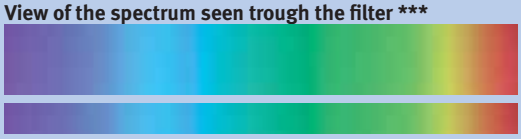
Frame	SKYLINE	LAMBDA ONE
Part number	620.P1005.00	–
DIR ›315 – ‹520	L1	–
DIR ›700 – 1000	L1	–
520 – 700	R1	–

Transmission Curve Filter P1005**



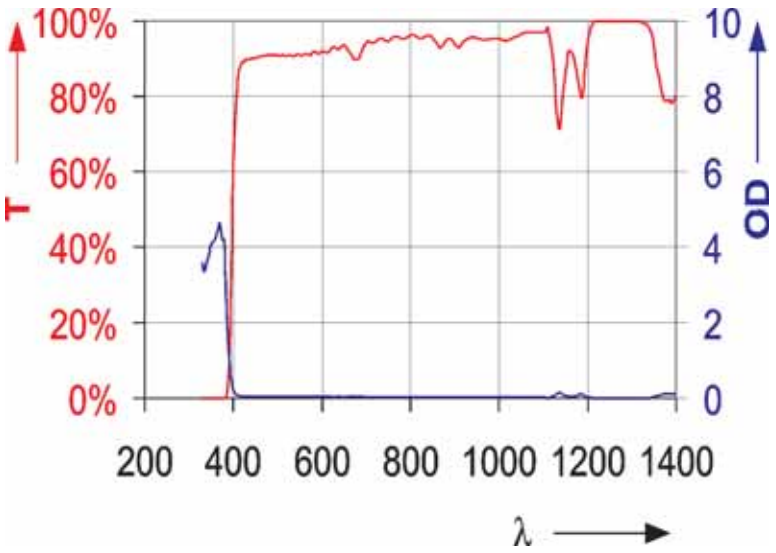
Plastic Filters for Laser Safety Eyewear

Filter P1007

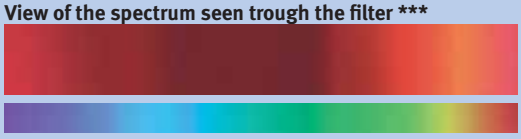
Filter	P1007
	Full Protection
Colour	clear
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	unrestricted
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE
Part number	620.P1007.00	700.P1007.00
D 9000 – 11000	L3	L3
IR 9000 – 11000	L2	L2

Transmission Curve Filter P1007**

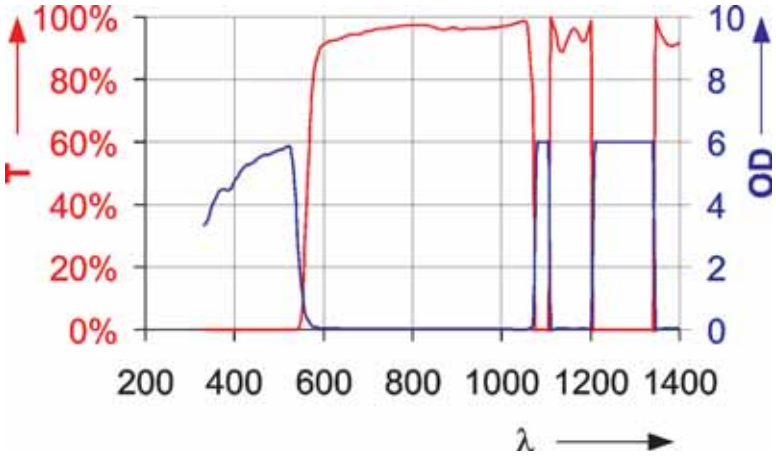


Filter P1008

Filter	P1008
	Full Protection
Colour	orange
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	40 %
Visual Brightness	good
Colour View	sufficient
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Frame	SKYLINE	LAMBDA ONE
Part number	620.P1008.00	700.P1008.00
D 190 – 532	L5	L5
IR 190 – 532	L6	L6

Transmission Curve Filter P1008**

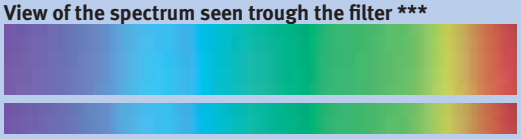


Plastic Filters for Laser Safety Eyewear

Filter P1009

Filter	P1009
	Full Protection
Colour	clear
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	unrestricted
Filter Thickness	approx. 2 mm*

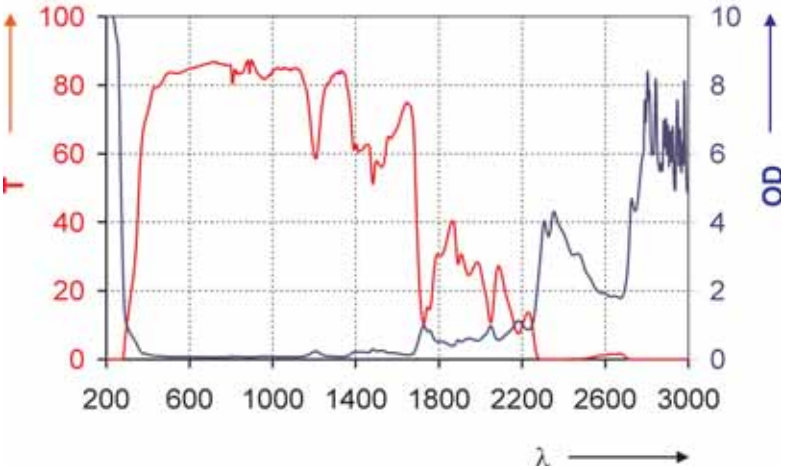
View of the spectrum seen trough the filter ***



View of the spectrum without filter

Frame	SKYLINE	LAMBDA ONE
Part number	620.P1009.00	700.P1009.00
DIR 2750 – 3000	L3	L3
DIR 9000 – 11000	L2	L2

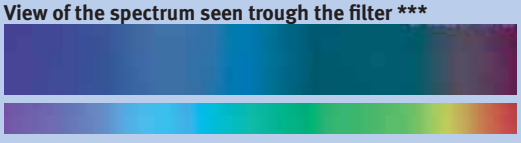
Transmission Curve Filter P1009**



Filter P1010

Filter	P1010
	Full Protection
Colour	Royal blue
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	15 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 2 mm*

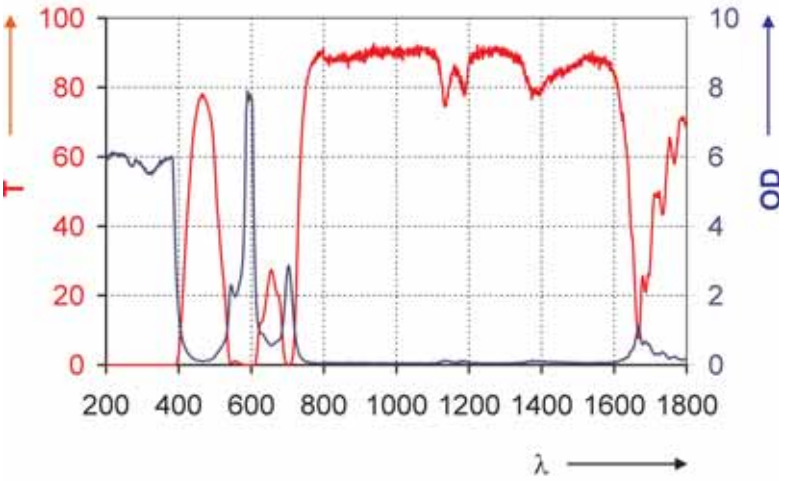
View of the spectrum seen trough the filter ***



View of the spectrum without filter

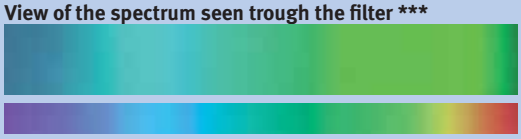
Frame	SKYLINE	LAMBDA ONE
Part number	620.P1010.00	700.P1010.00
D 585 – 605	L5	L5
IR 585 – 600	L5	L5
IR 600 – 605	L6	L6

Transmission Curve Filter P1010**



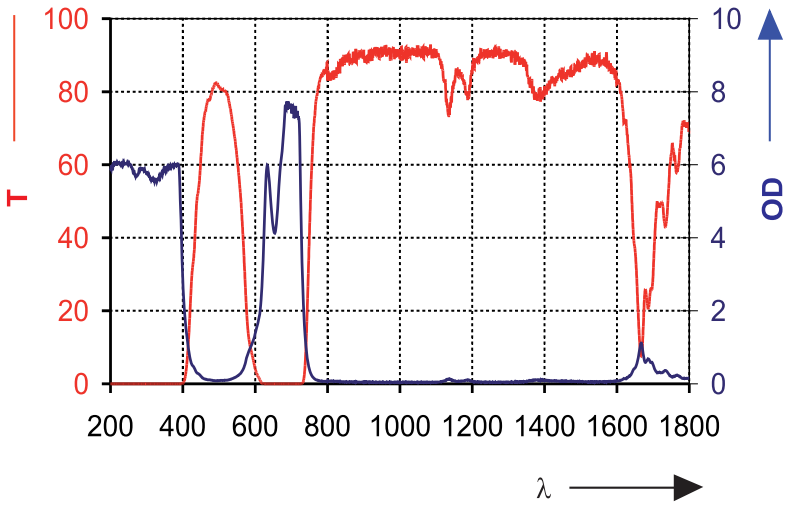
Plastic Filters for Laser Safety Eyewear

Filter P1011

Filter	P1011
	Full Protection
Colour	mint green
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	52 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

Frame	**SKYLINE**	**LAMBDA ONE**
Part number	620.P1011.00	700.P1011
DIR 630 – <690	L3	L3
D 690 – 710	L5	L5
IR 690 – 710	L7	L7

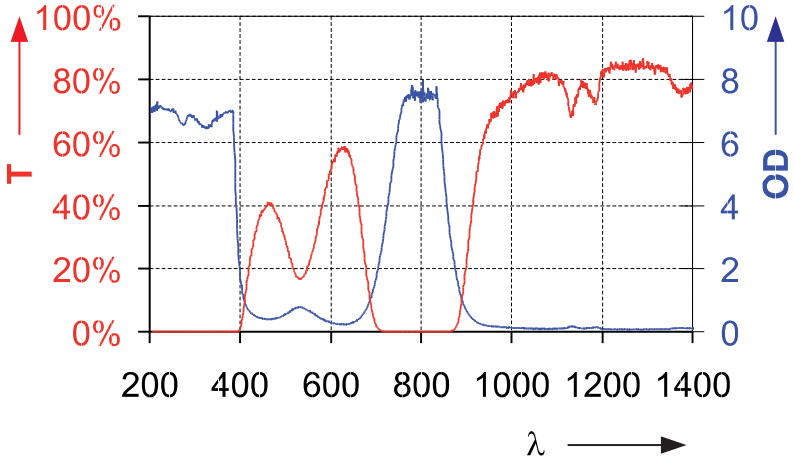
Transmission Curve Filter P1011**



Filter P1205

Filter	P1205
	Full protection
Colour	Magenta
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	35 %
Visual Brightness	good
Colour View	very good
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

Transmission Curve Filter P1205**

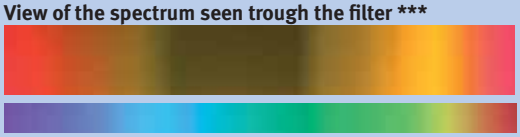


	standard Frame			reinforced Frame
Frame	**SKYLINE**	**LAMBDA ONE**	**VISION**	**VISION**
Part number	620.P1205.00	700.P1205.00	005.P1205.00	015.P1205.00
D 190–315	L5	L5	L5	L5
R 190–315	L4	L4	L4	L4
D >315–375	L4	L4	L4	L4
R >315–375	L5	L5	L5	L5
DIR 730–<755	L4	L4	L4	L4
DR 755–840	L5	L5	L5	L5
I 755–840	L7	L7	L6	L7
DIR >840–855	L4	L4	L4	L4

Plastic Filters for Laser Safety Eyewear

Filter P2005

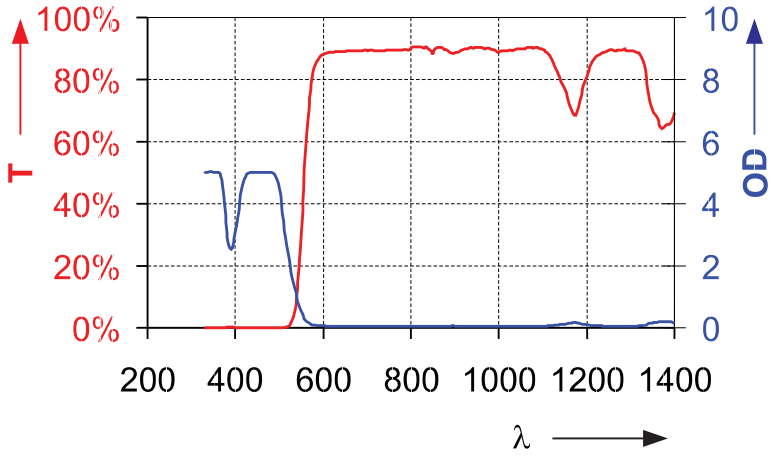
Filter	P2005
	Alignment Protection
Colour	orange
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	45 %
Visual Brightness	good
Colour View	restricted
Filter Thickness	approx. 3 mm*
View of the spectrum seen trough the filter ***	



View of the spectrum without filter

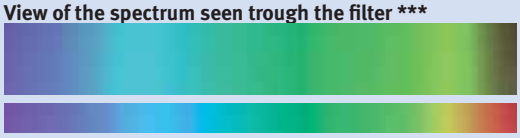
Frame	ALL STAR
Part number	012.P2005.00
532	R1

Transmission Curve Filter P2005**



Filter P2009

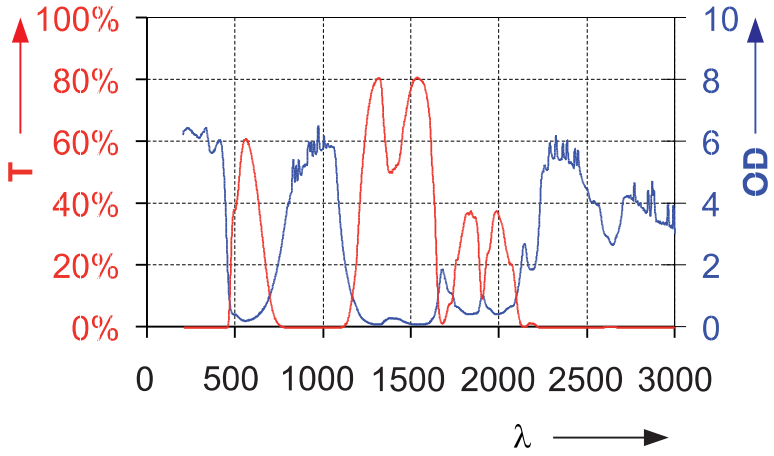
Filter	P2009
Colour	bright green
Filter Material	Plastic
Filter Technology	Absorption
Certification	CE
VLT (approx.)	65 %
Visual Brightness	very good
Colour View	good
Filter Thickness	approx. 3 mm*
View of the spectrum seen trough the filter ***	



View of the spectrum without filter

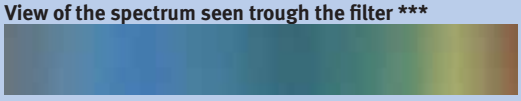
Frame	ALL STAR
Part number	012.P2009.00
D 180–315	L6
IR 180–315	L3
DIR ›315–420	L5
DIR 790–‹820	L3
DIR 820–‹850	L4
D 850–1065	L5
IR 850–‹940	L5
IR 940–‹1065	L6
DIR 1065–1080	L4
DIR 2750–3000	L3

Transmission Curve Filter P2009**



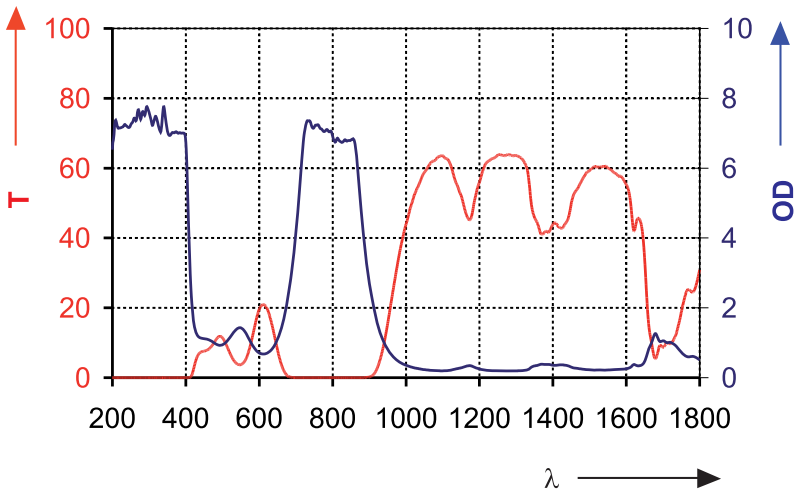
Plastic Filters for Laser Safety Eyewear

Filter P2010

Filter	P2010
	Full Protection
Colour	dark magenta
Filter Material	Plastic
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	10 %
Visual Brightness	sufficient
Colour View	restricted
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
	
View of the spectrum without filter	

Frame	**ALL STAR**	**PG ONE**
Part number	012.P2010.00	00P.P2010.00
DIR 730–<750	L5	L5
D 750–855	L5	L5
IR 750–840	L7	L7
IR >840–855	L5	L5
DIR <2750–3000	L3	L3
DIR 9000–10600	L2	L2
DIR >10600–11200	–	L2

Transmission Curve Filter P2010**

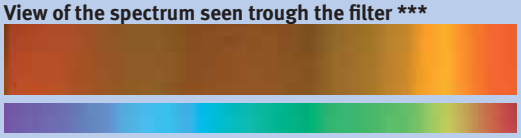


Glass Filters for Laser Safety Eyewear

Filter T01

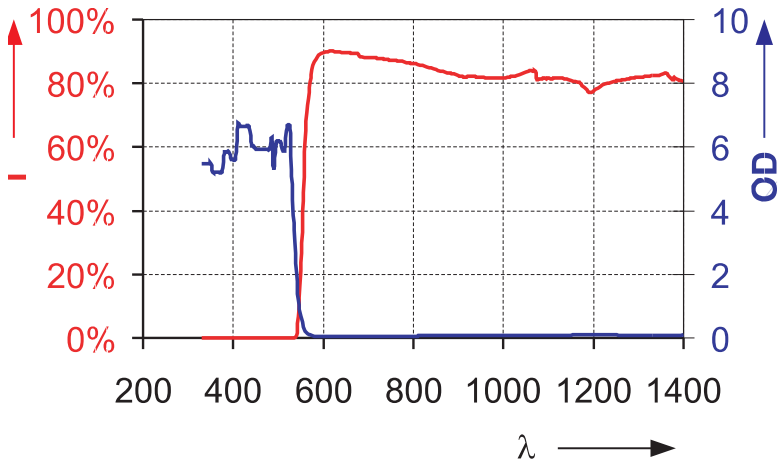
Filter	T01
	Full protection
Colour	orange
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	50 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 5 mm *

View of the spectrum seen trough the filter ***



View of the spectrum without filter

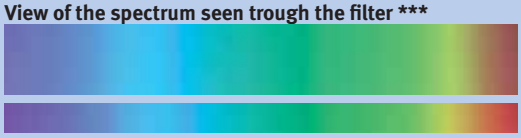
Transmission Curve Filter T01**



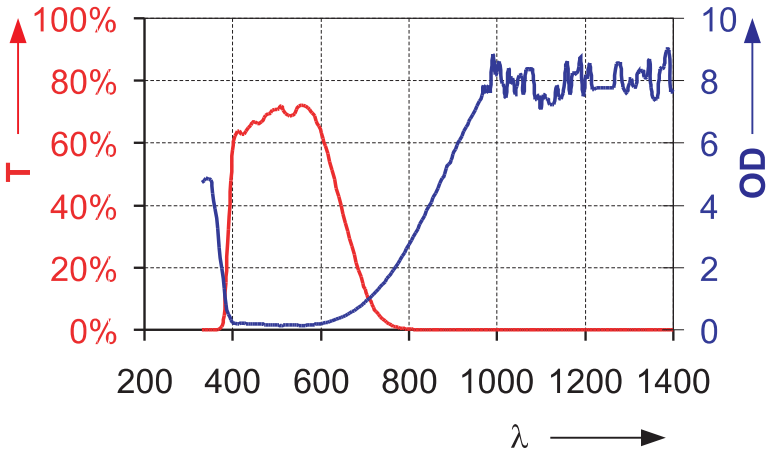
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0001.00	008.T0001.00	–	012.T0001.00	018.T0001.00
D 180–315	–	L8	L8	–	L9	L9
IR 180–315	–	L4	L5	–	L5	L5
D >315–515	–	L4	L5	–	L6	L6
IR >315–515	–	L6	L7	–	L8	L8
D 528	–	L4	L5	–	L5	L5
I 528	–	L5	L5	–	L5	L5
R 528	–	L4	L4	–	L4	L4

Glass Filters for Laser Safety Eyewear

Filter To6

Filter	T06
	Full protection
Colour	light grey
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	70 %
Visual Brightness	very good
Colour View	excellent
Filter Thickness	approx. 5 mm *
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Transmission Curve Filter To6**



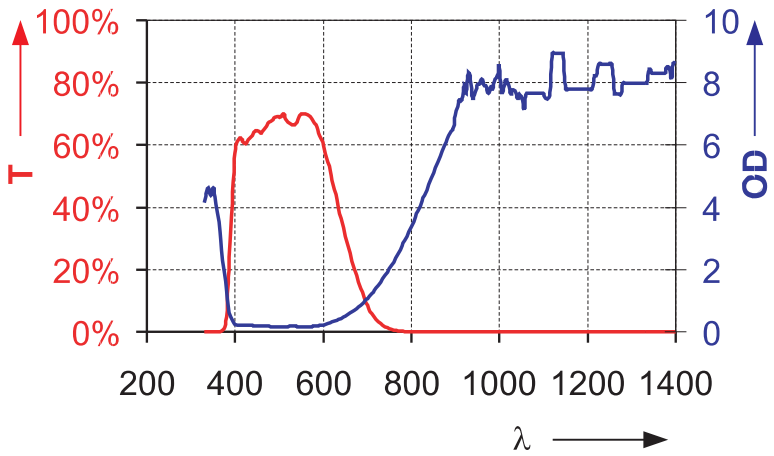
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0006.00	007.T0006.00	008.T0006.00	015.T0006.00	012.T0006.00	018.T0006.00
DIR 950–1000	L4	L4	L5	L4	L5	L5
D >1000–1400	L5	L4	L5	L7	L6	L6
IR >1000–1050	L6	L6	L7	L7	L7	L7
IR >1050–1400	L6	L6	L7	L8	L8	L8
D >1400–2200	L2	L2	L2	L5	L3	L3
IR >1400–2200	L2	L2	L2	L3	L3	L3
D 2780–3000	L2	L2	L2	L4	L3	L3
I 2780–3000	L2	L2	L2	L4	L4	L4
R 2780–3000	L2	–	–	L4	–	–
D 5400	L2	L2	L2	L4	L3	L4
I 5400	L2	L2	L2	L4	L4	L4
R 5400	L2	–	–	L4	–	–
D 10600	L2	L2	L2	L4	L4	L3
I 10600	L2	L2	L2	L4	L4	L4
R 10600	L2	–	–	L4	–	–
D 9000–11000	L2	–	–	L4	–	–
I 9000–11000	L2	–	–	L4	–	–
R 9000–11000	L2	–	–	L4	–	–

Glass Filters for Laser Safety Eyewear

Filter To7

Filter	T07
	Full protection
Colour	light grey
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	60 %
Visual Brightness	very good
Colour View	excellent
Filter Thickness	approx. 7 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Transmission Curve Filter To7**

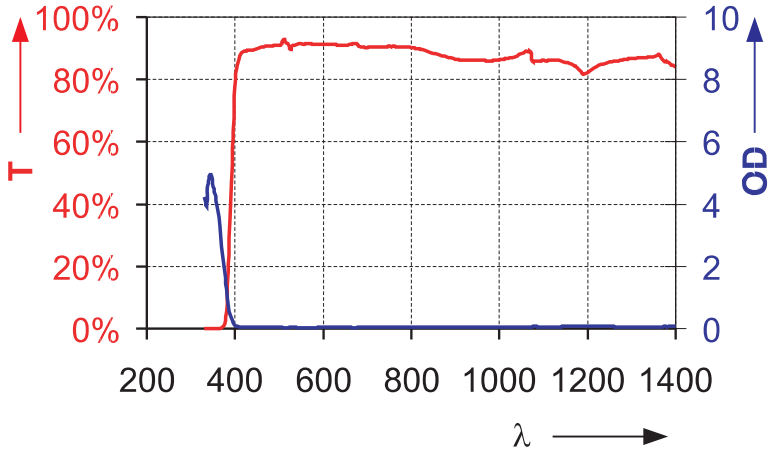


	standard Frame			reinforced Frame		
Frame	VISION	ECO	PROTECTOR	VISION	ALL STAR	PROTECTOR
Part number	–	007.T0007.00	008.T0007.00	–	012.T0007.00	018.T0007.00
D 900–1050	–	L4	L5	–	L6	L6
IR 900–1050	–	L6	L6	–	L6	L6
D ›1050–1400	–	L4	L5	–	L7	L7
IR ›1050–1400	–	L6	L7	–	L8	L8
D ›1400–2200	–	L2	L2	–	L5	L5
IR ›1400–2200	–	L2	L2	–	L6	L6
DIR ›2200–3000	–	L2	L2	–	L5	L5
DIR ›3000–‹9000	–	L2	L2	–	L4	L4
D 9000–11000	–	L2	L2	–	L5	L5
I 9000–11000	–	L2	L2	–	L6	L6
R 9000–11000	–	L2	L2	–	L4	L4

Filter To8

Filter	T08
	Full protection
Colour	clear
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	90 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 5 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

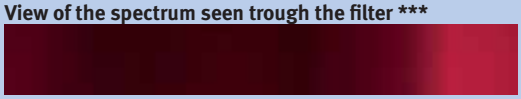
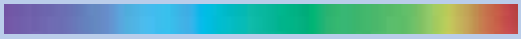
Transmission Curve Filter To8**



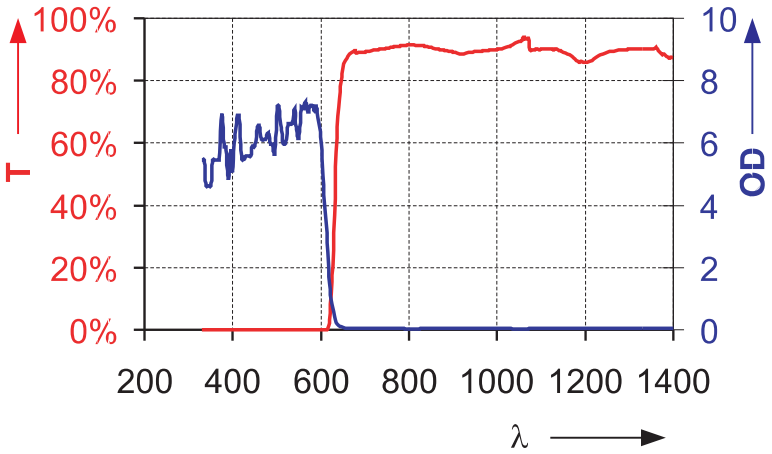
	standard Frame			reinforced Frame		
Frame	VISION	ECO	PROTECTOR	VISION	ALL STAR	PROTECTOR
Part number	005.T0008.00	007.T0008.00	008.T0008.00	015.T0008.00	012.T0008.00	018.T0008.00
DI 5400	L2	L2	L2	L5	L4	L4
R 5400	L2	L2	L2	L4	L5	L5
D 9000–11000	L2	L2	L2	L5	L5	L5
I 9000–11000	L2	L2	L2	L5	L6	L6
R 9000–11000	L2	L2	L2	L4	L5	L5

Glass Filters for Laser Safety Eyewear

Filter T12

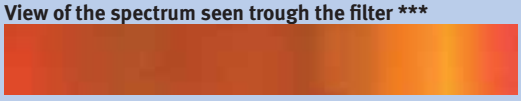
Filter	T12
	Full protection
Colour	red
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	10 %
Visual Brightness	sufficient
Colour View	restricted
Filter Thickness	approx. 3 mm *
View of the spectrum seen trough the filter *	
	
	
View of the spectrum without filter	

Transmission Curve Filter T12**

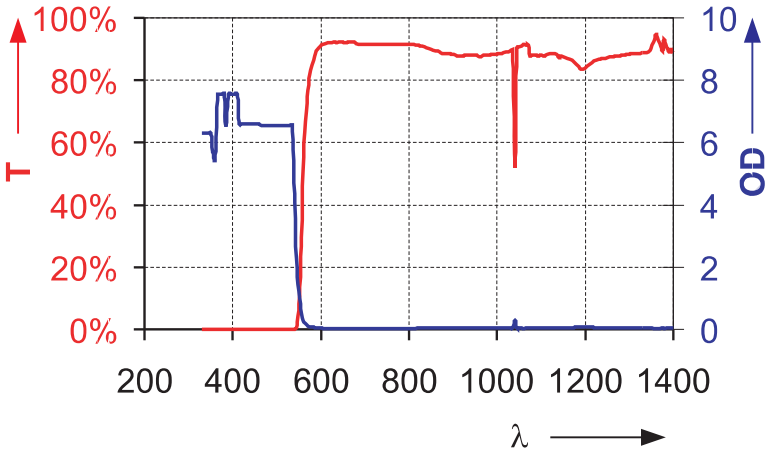


	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0012.00	008.T0012.00	–	012.T0012.00	018.T0012.00
D 180–315	–	L8	L8	–	L9	L9
IR 180–315	–	L4	L5	–	L5	L5
IR >315–515	–	L6	L7	–	L8	L8
D >315–578	–	L4	L5	–	L6	L6
IR >515–578	–	L6	L7	–	L7	L7

Filter T13

Filter	T13
	Full protection
Colour	orange
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	40 %
Visual Brightness	good
Colour View	restricted
Filter Thickness	approx. 5 mm *
View of the spectrum seen trough the filter *	
	
	
View of the spectrum without filter	

Transmission Curve Filter T13**



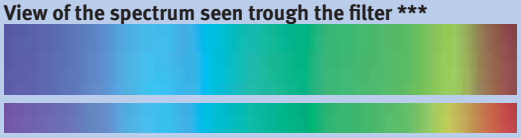
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0013.00	007.T0013.00	008.T0013.00	015.T0013.00	012.T0013.00	018.T0013.00
D 180–315	L8	L8	L8	L9	L9	L9
IR 180–315	L4	L4	L5	L4	L5	L5
D >315–380	L4	L4	L5	L7	L6	L6
I >315–532	L6	L6	L7	L8	L8	L8
R >315–532	L4	L4	L4	L4	L4	L4
D >380–532	L5	L4	L5	L7	L6	L6

Glass Filters for Laser Safety Eyewear

Filter T23

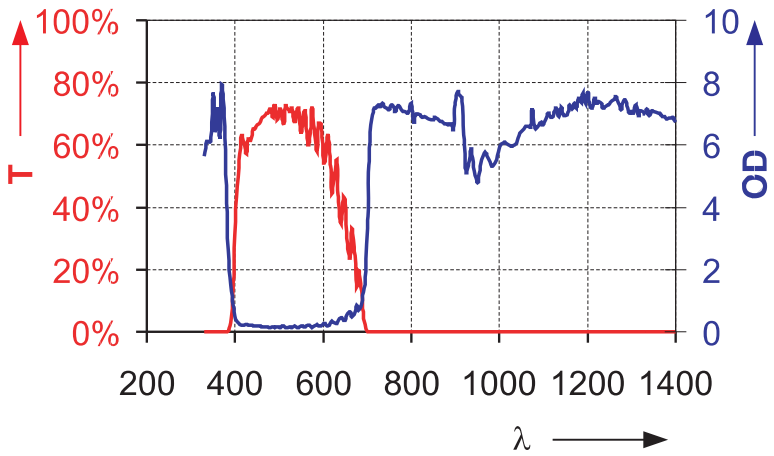
Filter	T23
	Full protection
Colour	light grey
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption Filter
Certification	DIN GS
VLT (approx.)	62 %
Visual Brightness	very good
Colour View	excellent
Filter Thickness	approx. 5 mm *

View of the spectrum seen trough the filter ***



View of the spectrum without filter

Transmission Curve Filter T23**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0023.00	008.T0023.00	–	012.T0023.00	018.T0023.00
D 750–840	–	L4	L5	–	L6	L6
I 750–840	–	L6	L7	–	L7	L7
M 795–805	–	–	–	–	L9	L9
DI >840–850	–	L4	L4	–	L4	L4

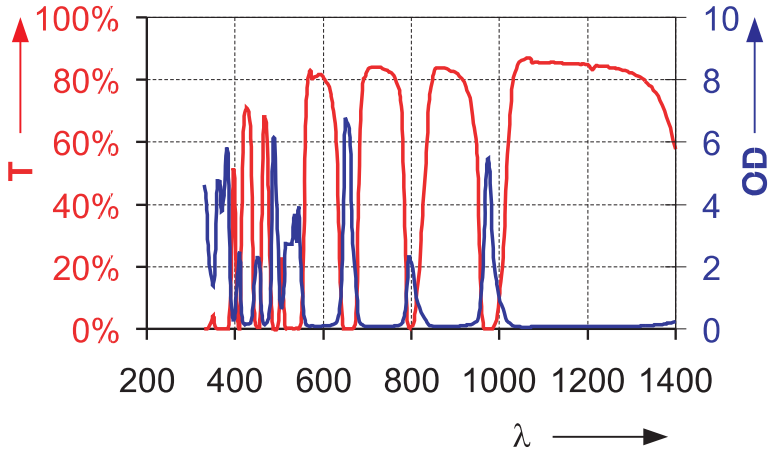
Filter T24

Filter	T24
	Full protection
Colour	pink
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	48 %
Visual Brightness	good
Colour View	excellent
Filter Thickness	approx. 5 mm *

View of the spectrum seen trough the filter ***

View of the spectrum without filter

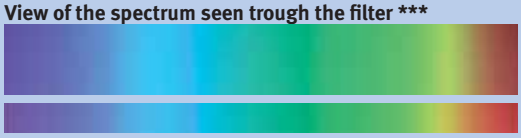
Transmission Curve Filter T24**



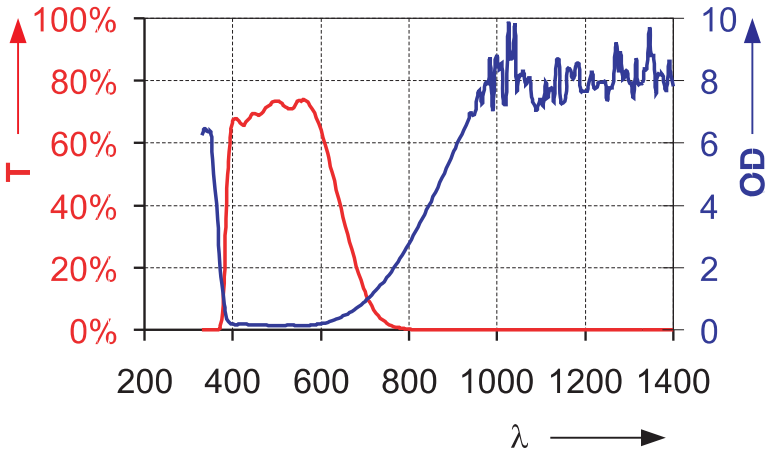
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0024.00	008.T0024.00	–	012.T0024.00	018.T0024.00
D 532	–	L4	L5	–	L6	L6
IR 532	–	L6	L6	–	L6	L6

Glass Filters for Laser Safety Eyewear

Filter T26

Filter	T26
	Full protection
Colour	light grey
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	66 %
Visual Brightness	very good
Colour View	excellent
Filter Thickness	approx. 6 mm *
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Transmission Curve Filter T26**



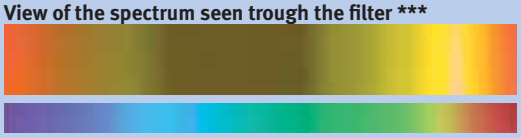
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0026.00	008.T0026.00	–	012.T0026.00	018.T0026.00
DIR 950–1000	–	L4	L4	–	L4	L4
D ›1000–1050	–	L4	L5	–	L7	L7
IR ›1000–1050	–	L6	L7	–	L7	L7
D ›1050–1400	–	L4	L5	–	L7	L7
IR ›1050–1400	–	L6	L7	–	L8	L8
DI ›1400–2100	–	L2	L2	–	L5	L5
DI ›2100–2800	–	L2	L2	–	L4	L4
DI ›2800–3000	–	L2	L2	–	L5	L5
DI 10600	–	L2	L2	–	L4	L4

Glass Filters for Laser Safety Eyewear

Filter T27

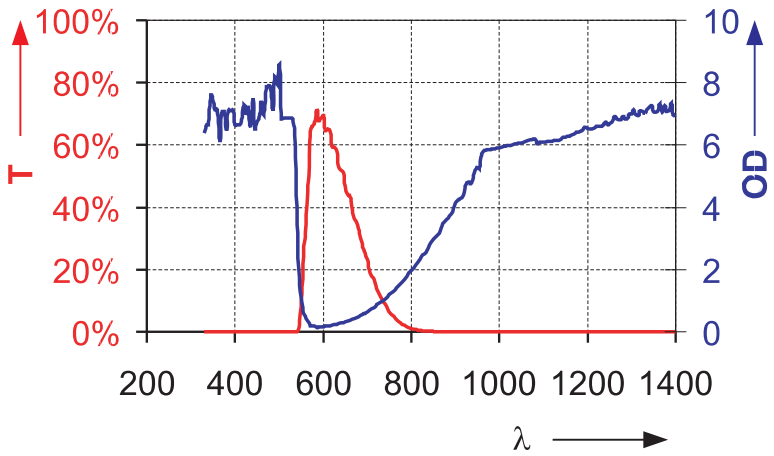
Filter	T27
	Full protection
Colour	orange
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption Filter
Certification	DIN GS
VLT (approx.)	30 %
Visual Brightness	good
Colour View	sufficient
Filter Thickness	approx. 6 mm *

View of the spectrum seen trough the filter ***



View of the spectrum without filter

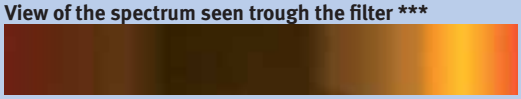
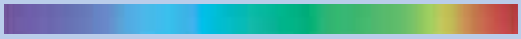
Transmission Curve Filter T27**



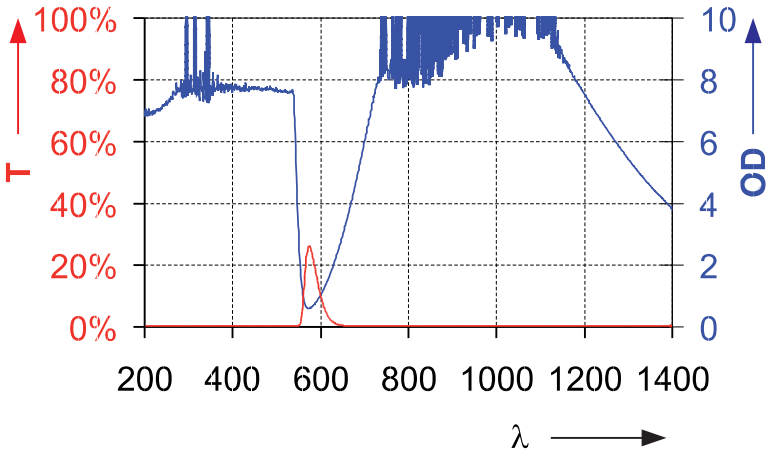
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0027.00	007.T0027.00	008.T0027.00	015.T0027.00	012.T0027.00	018.T0027.00
D 180–315	L8	L8	L8	L9	L9	L10
IR 180–315	L4	L4	L5	L4	L5	L5
D ›315–380	L4	L4	L5	L6	L6	L6
I ›315–532	L6	L6	L7	L8	L7	L7
R ›315–532	L5	L5	L5	L5	L5	L5
M ›315–532	–	–	–	L5	L5	L5
D ›380–532	L5	L4	L5	L6	L6	L6
D 1030–1045	–	L4	L5	–	L7	L7
IR 1030–1045	–	L6	L7	–	L7	L7
M 1030–1045	–	–	–	–	L5	L5
D 1045–1064	L5	L4	L5	L6	L7	L7
IR 1045–1064	L6	L6	L7	L6	L7	L7
M 1045–1064	–	–	–	L5	L5	L5
D ›1064–1100	–	L4	L5	–	L7	L7
IR ›1064–1100	–	L6	L7	–	L7	L7
M ›1064–1100	–	–	–	–	L5	L5

Glass Filters for Laser Safety Eyewear

Filter T28

Filter	T28
	Alignment and Full Protection
Colour	brown
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	CE
VLT (approx.)	10 %
Visual Brightness	sufficient
Colour View	limited
Filter Thickness	approx. 6-7 mm *
View of the spectrum seen trough the filter *	
	
	
View of the spectrum without filter	

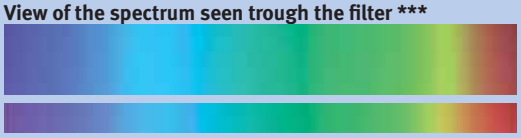
Transmission Curve Filter T28**



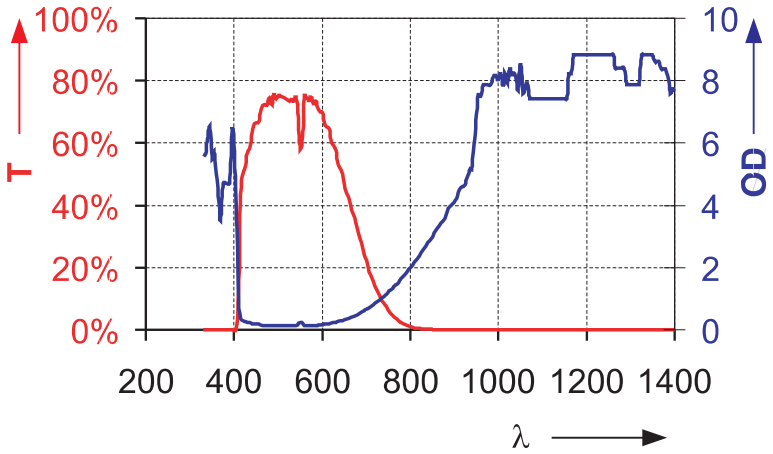
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number					012.T0028.00	018.T0028.00
D 180–315	–	–	–	–	L8	L8
IR 180–315	–	–	–	–	L5	L5
D ›315–532	–	–	–	–	L5	L5
I ›315–532	–	–	–	–	L7	L7
R ›315–532	–	–	–	–	L4	L4
D 750–1100	–	–	–	–	L5	L5
IR 750–1100	–	–	–	–	L7	L7
633					R1	R1

Glass Filters for Laser Safety Eyewear

Filter T35

Filter	T35
	Full protection
Colour	light grey
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption Filter
Certification	DIN GS
VLT (approx.)	77 %
Visual Brightness	very good
Colour View	excellent
Filter Thickness	approx. 4 mm *
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Transmission Curve Filter T35**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0035.00	007.T0035.00	008.T0035.00	015.T0035.00	012.T0035.00	018.T0035.00
D 1030–1064	L5	L4	L5	L8	L8	L8
I 1030–1064	L6	L6	L7	L8	L8	L8
R 1030–1064	L6	L6	L6	L6	L6	L6
M 1030–1100	–	–	–	–	L6	L6
D >1064–1100	–	L4	L5	–	L8	L8
I >1064–1100	–	L6	L7	–	L9	L9
R >1064–1100	–	L6	L6	–	L6	L6
DI 2000–2200	L2	L2	L2	L2	L2	L2
R 2000–2200	L2	L1	L1	L2	L1	L1
D 5400	L2	L2	L2	L3	L3	L3
I 5400	L2	L2	L2	L4	L4	L4
R 5400	L2	L2	L2	L2	L2	L2
D 9000–11000	L2	L2	L2	L3	L3	L3
I 9000–11000	L2	L2	L2	L4	L4	L4
R 9000–11000	L2	L2	L2	L2	L2	L2

Note: Filter no. T35

For this filter absorption and interference technologies are used. Absorption filters can be edge filters or bandpass filters.

The only solution for complex requirements of certain laser applications is the combination of such filters. This combination of absorbing and reflecting filters can cause colour reflections in the filter structure. These colour reflections vary in intensity from batch to batch. They are slightly stronger with curved filters and are perceived quite differently by each person.

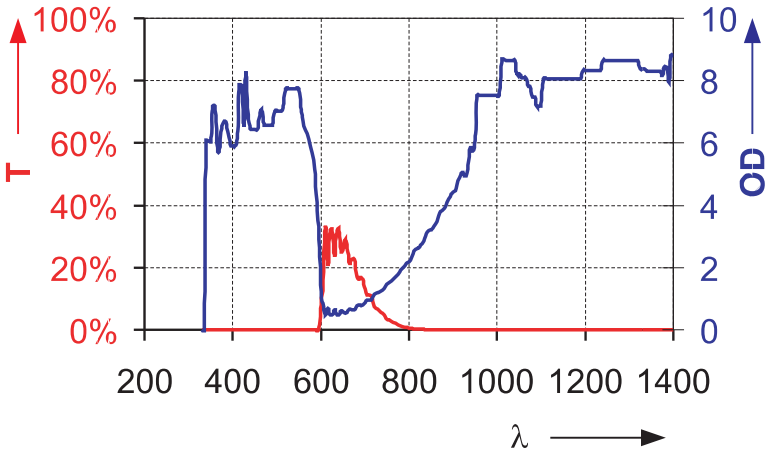
These reflections also depend on ambient light conditions: in a darker room they can be perceived more clearly, and they can hardly be noticed in a brighter room. Such colour reflections are part of the optical behaviour of this combination technology. They are a physical phenomenon and not a manufacturing error. Because T35 is a multiple bandpass filter, the optical impression in reality is significantly better than with a comparable edge filter with similar VLT.

Glass Filters for Laser Safety Eyewear

Filter T37

Filter	T37
	Full protection
Colour	orange
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption Filter
Certification	DIN GS
VLT (approx.)	15 %
Visual Brightness	sufficient
Colour View	limited
Filter Thickness	approx. 9 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Transmission Curve Filter T37**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0037.00	008.T0037.00	015.T0037.00	012.T0037.00	018.T0037.00
D 180–315	–	L8	L8	L8	L9	L10
IR 180–315	–	L4	L5	L4	L5	L5
D ›315–532	–	L4	L5	L7	L8	L8
I ›315–532	–	L6	L7	L8	L8	L8
R ›315–532	–	L6	L7	L7	L7	L7
M ›315–532	–	–	–	L6	L6	L6
D 1030 – ‹1045	–	L4	L5	–	L7	L7
I 1030 – ‹1045	–	L6	L7	–	L8	L8
R 1030 – ‹1045	–	L6	L7	–	L7	L7
M 1030 – ‹1045	–	–	–	–	L6	L6
D 1045–1064	–	L4	L5	L6	L7	L7
I 1045–1064	–	L6	L7	L7	L8	L8
R 1045–1064	–	L6	L7	L6	L7	L7
M 1045–1064	–	–	–	L6	L6	L6
D ›1064–1100	–	L4	L5	–	L7	L7
I ›1064–1100	–	L6	L7	–	L8	L8
R ›1064–1100	–	L6	L7	–	L7	L7
M ›1064–1100	–	–	–	–	L6	L6

Note: Filter no. T37

For this filter absorption and interference technologies are used. Absorption filters can be edge filters as well as bandpass filters.

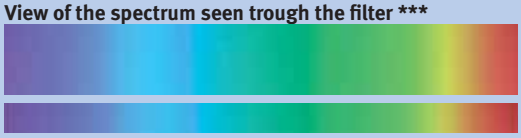
The only solution for complex requirements of certain laser applications is the combination of such filters. This combination of absorbing and reflecting filters can cause colour reflections in the filter structure. These colour reflections vary in intensity from batch to batch. They are slightly stronger with curved filters and are perceived quite differently by each person.

These reflections also depend on ambient light conditions: in a darker room they can be perceived more clearly, and they can hardly be noticed in a brighter room. Such colour reflections are part of the optical behaviour of this combination technology. They are a physical phenomenon and not a manufacturing error.

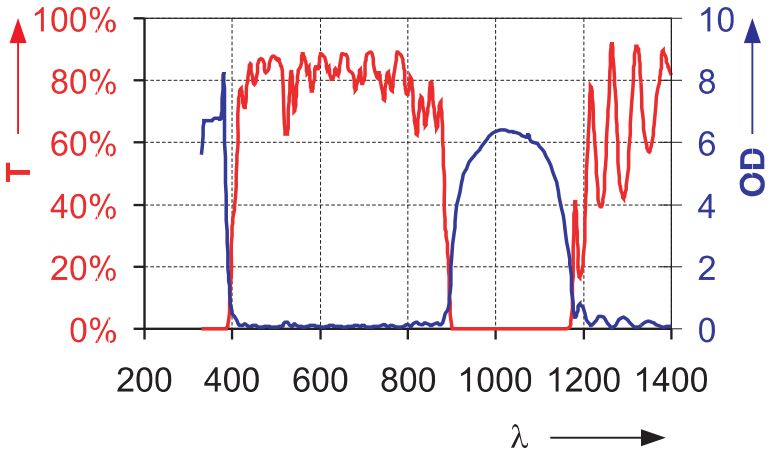
Glass Filters for Laser Safety Eyewear

Coated Plastic Filters for Laser Safety Eyewear

Filter T43

Filter	T43
	Full protection
Colour	clear
Filter Material	Coating on Plastic
Filter Technology	Reflective Filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

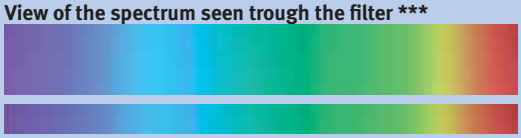
Transmission Curve Filter T43**



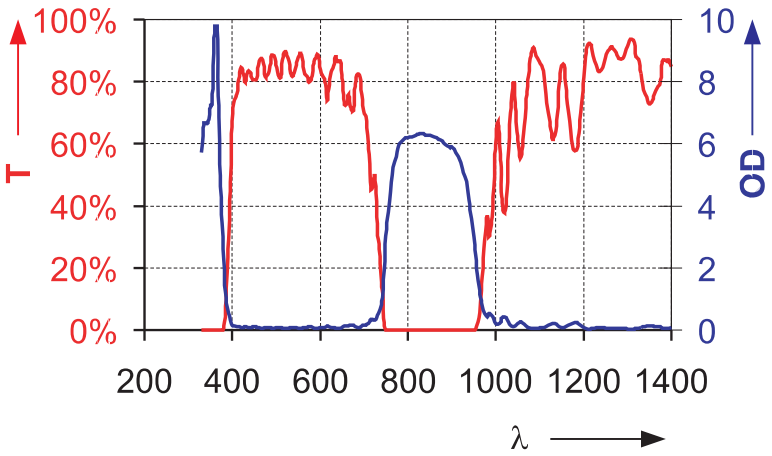
	standard Frame			reinforced Frame			
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**	**SPLIT SHIELD**
Part number	005.T0043.00	–	–	–	–	–	019.T0043.00[1]
DIR 925–960	L3	–	–	–	–	–	L3
DIR >960–970	L4	–	–	–	–	–	L4
DIR >970–1000	L5	–	–	–	–	–	L5
DIR >1000–1010	L3	–	–	–	–	–	L3

[1]Extention 00: white frame; 01: black frame

Filter T44

Filter	T44
	Full protection
Colour	clear
Filter Material	Coating on Plastic
Filter Technology	Reflective Filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 2 mm*
View of the spectrum seen trough the filter ***	
	
View of the spectrum without filter	

Transmission Curve Filter T44**



	standard Frame			reinforced Frame			
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**	**SPLIT SHIELD**
Part number	005.T0044.00	-	-	-	-	-	019.T0044.00[1]
DIR 780-790	L3	-	-	-	-	-	L3
DIR >790-800	L4	-	-	-	-	-	L4
DIR >800-840	L5	-	-	-	-	-	L5
DIR >840-860	L4	-	-	-	-	-	L4

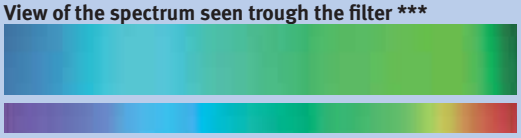
[1]Extention 00: white frame; 01: black frame

Glass Filters for Laser Safety Eyewear

Filter T48

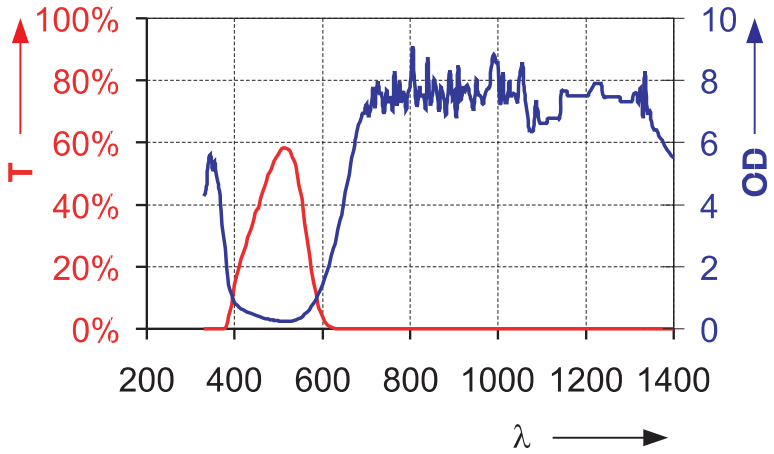
Filter	T48
	Alignment and Full Protection
Colour	green
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	35 %
Visual Brightness	sufficient
Colour View	good
Filter Thickness	5,5 - 6,5 mm *

View of the spectrum seen trough the filter ***



View of the spectrum without filter

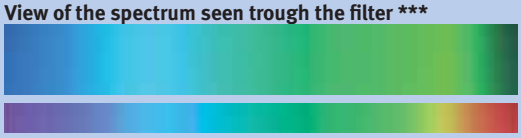
Transmission Curve Filter T48**



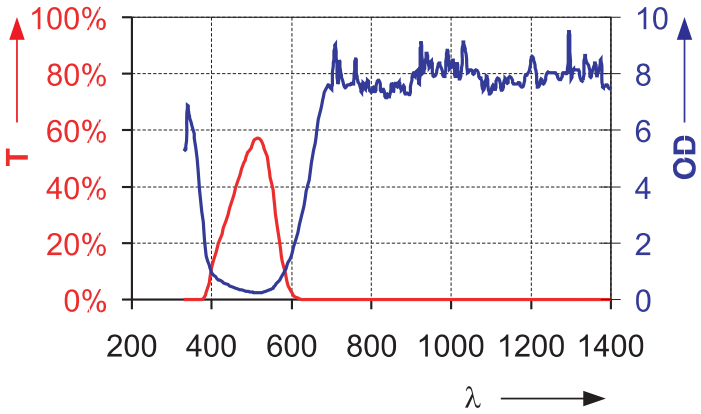
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0048.00	007.T0048.00	008.T0048.00	015.T0048.00	012.T0048.00	018.T0048.00
D 690 – 1040	L5	L4	L5	L7	L6	L6
IR 690 – 1040	L6	L6	L7	L7	L7	L7
D ›1040 – 1070	L5	L4	L5	L7	L6	L6
IR ›1040 – 1070	L6	L6	L7	L8	L7	L7
D ›1070 – 1320	L5	L4	L5	L6	L6	L6
IR ›1070 – 1320	L6	L6	L7	L6	L7	L7
M 720 – ‹795	–	–	–	–	L8	L8
M 795–805	–	–	–	–	L10	L10
M ›805 – 900	–	–	–	–	L8	L8
DIR ›1320–1400	–	L3	L3	–	L3	L3
DIR ›1400 – 1550	–	L2	L2	–	L3	L3
DIR 1550	L2	L2	L2	L2	L3	L3
D 10600	L2	L2	L2	L4	L3	L3
I 10600	–	L2	L2	–	L4	L4
633	R2	R2	R2	R2	R2	R2

Glass Filters for Laser Safety Eyewear

Filter T58

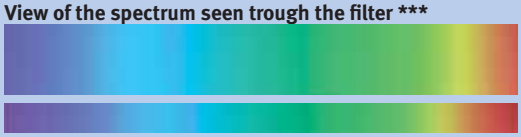
Filter	T58
	Alignment and Full Protection
Colour	green
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	32 %
Visual Brightness	sufficient
Colour View	good
Filter Thickness	approx. 6.5–7 mm *
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Transmission Curve Filter T58**

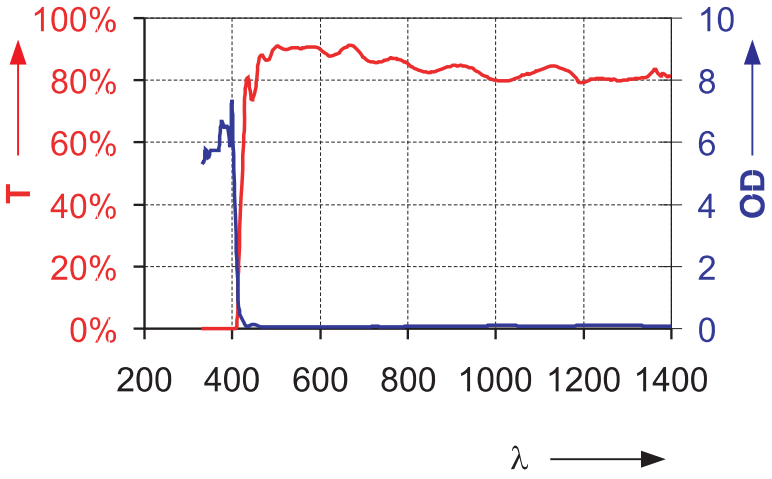


	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0058.00	008.T0058.00	–	012.T0058.00	018.T0058.00
DIR 620 – 690	–	L2	L2	–	L2	L2
D ›690 – 755	–	L4	L5	–	L6	L6
IR ›690 – 755	–	L6	L7	–	L8	L8
M 700 – ‹795	–	–	–	–	L8	L8
D ›755 – 1320	–	L4	L5	–	L5	L5
IR ›755 – 1320	–	L6	L7	–	L7	L7
M 795 – 805	–	–	–	–	L10	L10
M ›805 – 900	–	–	–	–	L8	L8
633	–	R3	R3	–	R3	R3

Filter T6o

Filter	T60
	Full protection
Colour	light yellow
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption filter
Certification	DIN GS
VLT (approx.)	85 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 3 mm *
View of the spectrum seen trough the filter *	
	
View of the spectrum without filter	

Transmission Curve Filter T6o**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0060.00	007.T0060.00	008.T0060.00	015.T0060.00	012.T0060.00	018.T0060.00
D 180–315	L8	L8	L8	L9	L9	L9
IR 180–315	L4	L4	L5	L4	L5	L5
D ›315–380	L4	L4	L5	L5	L5	L5
IR ›315–380	L6	L6	L7	L8	L8	L8

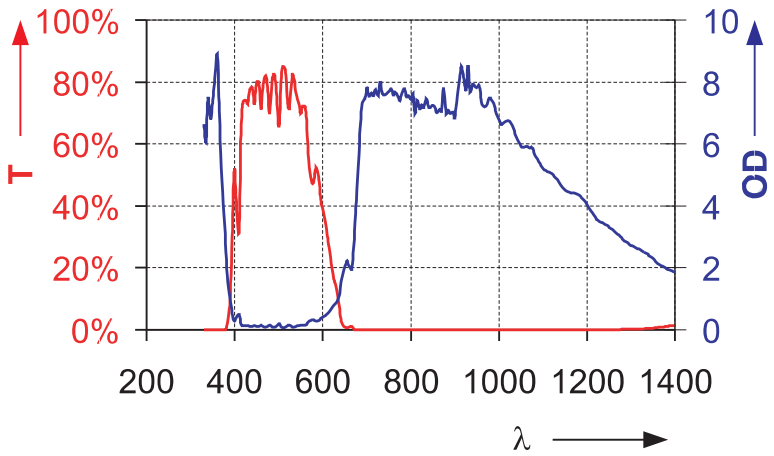
Glass Filters for Laser Safety Eyewear

Filter T62

Filter	T62
	Full protection
Colour	teal
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption filter
Certification	DIN GS
VLT (approx.)	50 %
Visual Brightness	good
Colour View	excellent
Filter Thickness	approx. 5 mm *
View of the spectrum seen trough the filter *	

View of the spectrum without filter

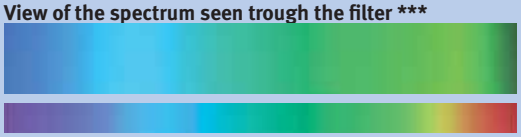
Transmission Curve Filter T62**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	–	–	–	012.T0062.00	018.T0062.00
D 808–990	–	–	–	–	L6	L6
IR 808–1064	–	–	–	–	L8	L8
D >990–1064	–	–	–	–	L7	L7

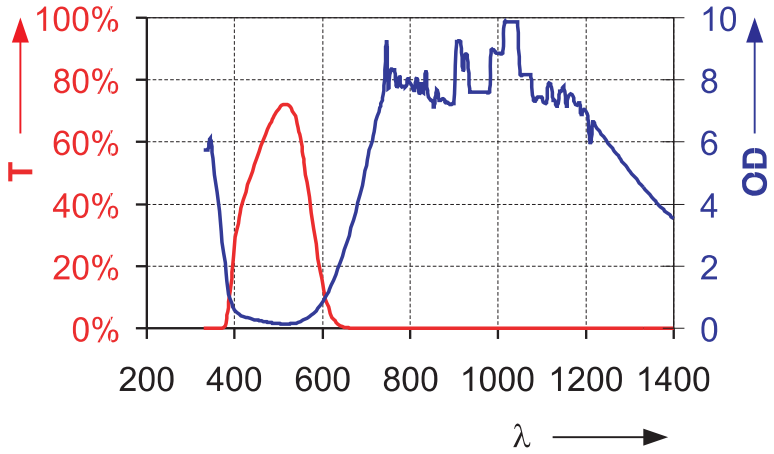
Filter T68

Filter	T68
	Alignment and Full Protection
Colour	light green
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	45 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 4 mm *
View of the spectrum seen trough the filter *	



View of the spectrum without filter

Transmission Curve Filter T68**

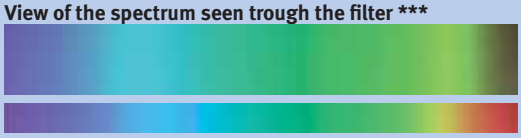


	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0068.00	007.T0068.00	008.T0068.00	015.T0068.00	012.T0068.00	018.T0068.00
D 750–1100	L5	L4	L5	L6	L6	L6
IR 750–1100	L6	L6	L7	L8	L8	L8
D 10600	L2	L2	L2	L4	L3	L3
I 10600	L2	L2	L2	L4	L4	L4
633	R1	R1	R1	R1	R1	R1
670	R3	–	–	R3	–	–

Glass Filters for Laser Safety Eyewear

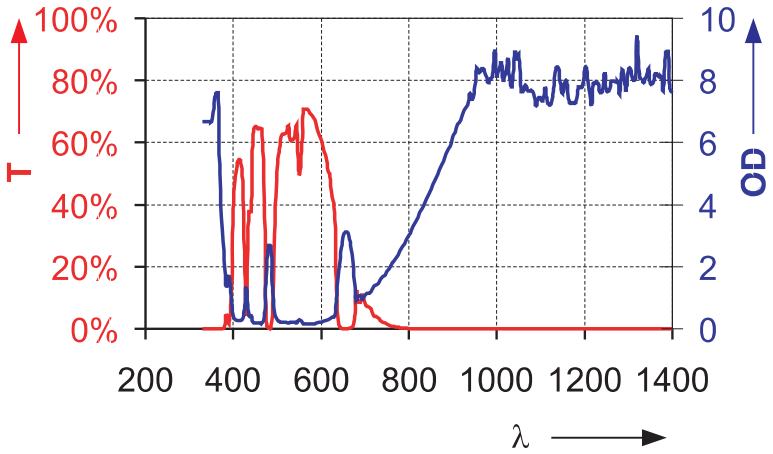
Filter T73

Filter	T73
	Full protection
Colour	light green
Filter Material	Coating on Mineral glass
Filter Technology	Reflective and Absorption filter
Certification	DIN GS
VLT (approx.)	55 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 8 mm *
View of the spectrum seen trough the filter *	



View of the spectrum without filter

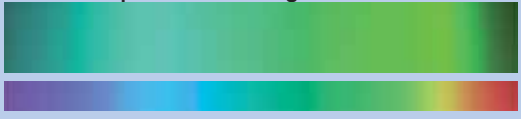
Transmission Curve Filter T73**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	–	–	–	012.T0073.00	018.T0073.00
DIR 950–1000	–	–	–	–	L4	L4
IR >1000–1050	–	–	–	–	L7	L7
D >1000–1400	–	–	–	–	L6	L6
IR >1050–1400	–	–	–	–	L8	L8
D 2780–3000	–	–	–	–	L5	L5
I 2780–3000	–	–	–	–	L4	L4
D 10600	–	–	–	–	L5	L5
I 10600	–	–	–	–	L4	L4

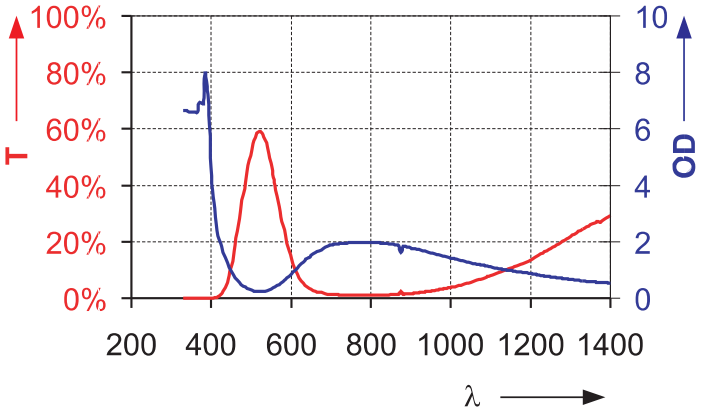
Filter T81

Filter	T81
	Alignment Protection
Colour	green
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	35 %
Visual Brightness	sufficient
Colour View	good
Filter Thickness	approx. 4 mm *
View of the spectrum seen trough the filter *	



View of the spectrum without filter

Transmission Curve Filter T81**



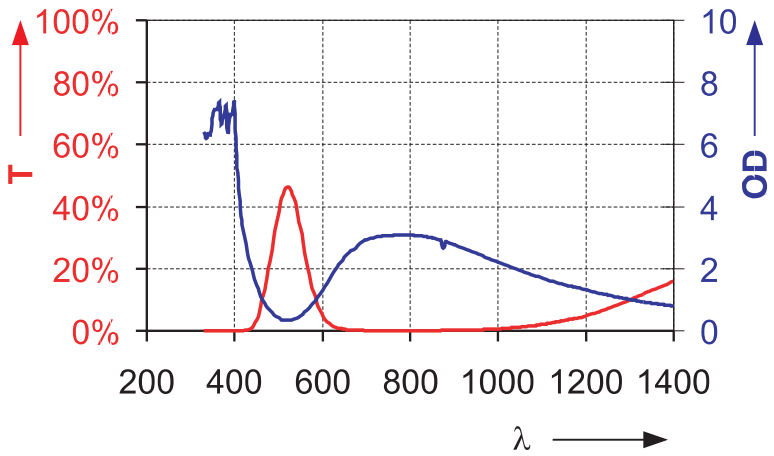
	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	–	007.T0081.00	008.T0081.00	–	–	–
630–690	–	R1	R1	–	–	–

Glass Filters for Laser Safety Eyewear

Filter T82

Filter	T82
	Alignment Protection
Colour	green
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	25 %
Visual Brightness	sufficient
Colour View	limited
Filter Thickness	approx. 4 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Transmission Curve Filter T82**

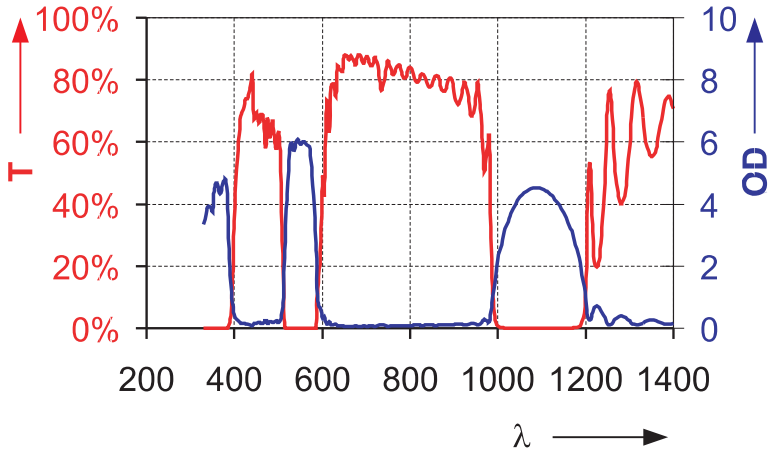


	standard Frame			reinforced Frame		
Frame	VISION	ECO	PROTECTOR	VISION	ALL STAR	PROTECTOR
Part number	–	007.T0082.00	008.T0082.00	–	–	–
630–690	–	R2	R2	–	–	–

Filter T83

Filter	T83
	Full protection
Colour	green
Filter Material	Coating on Mineral glass
Filter Technology	Reflective filter
Certification	DIN GS
VLT (approx.)	20 %
Visual Brightness	good
Colour View	good
Filter Thickness	approx. 3,5 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Transmission Curve Filter T83**



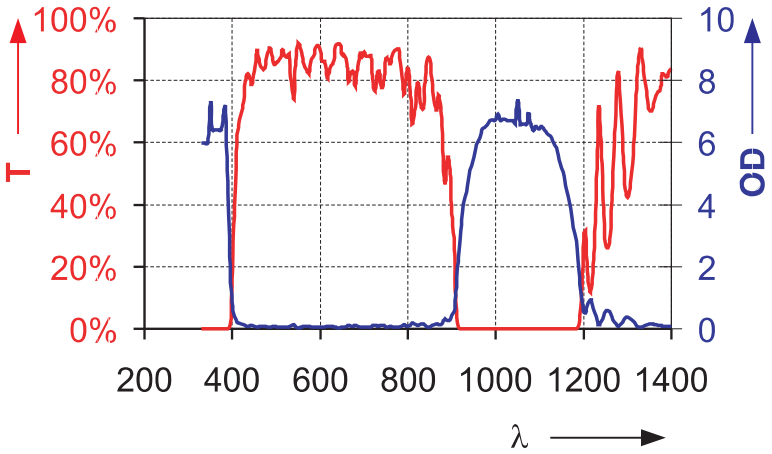
	standard Frame			reinforced Frame		
Frame	VISION	ECO	PROTECTOR	VISION	ALL STAR	PROTECTOR
Part number	–	007.T0083.00	–	–	012.T0083.00	018.T0083.00
D 530–535	–	L4	–	–	L6	L6
I 530–535	–	L6	–	–	L6	L6
R 530–535	–	L5	–	–	L5	L5

Coated Plastic Filters for Laser Safety Eyewear

Filter T92

Filter	T92
	Full protection
Colour	clear
Filter Material	Coating on Plastics
Filter Technology	Reflective filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 2 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Transmission Curve Filter T92**



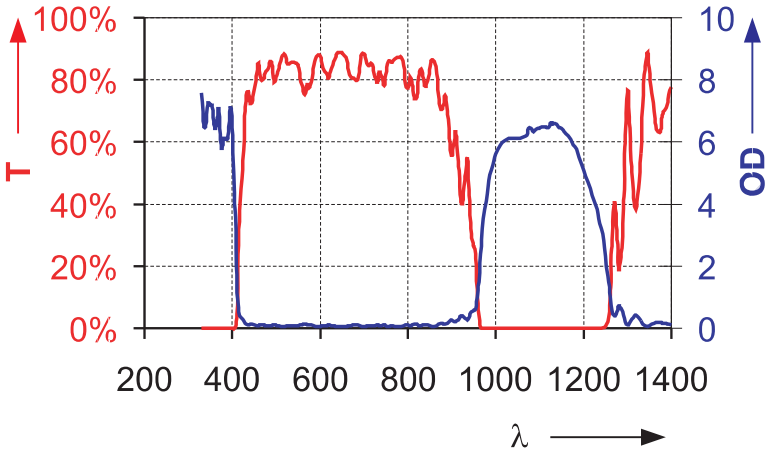
	standard Frame			reinforced Frame			
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**	**SPLIT SHIELD**
Part number	005.T0092.00	–	–	–	–	–	019.T0092.00[1]
DIR 1040–1080	L5	–	–	–	–	–	L5
D 9000–11000	L2	–	–	–	–	–	L2
I 9000–11000	L2	–	–	–	–	–	L2

[1]Extention 00: white frame; 01: black frame

Filter T93

Filter	T93
	Full protection
Colour	clear
Filter Material	Coating on Plastics
Filter Technology	Reflective filter
Certification	DIN GS
VLT (approx.)	80 %
Visual Brightness	excellent
Colour View	excellent
Filter Thickness	approx. 2 mm *
View of the spectrum seen trough the filter ***	
View of the spectrum without filter	

Transmission Curve Filter T93**



	standard Frame			reinforced Frame			
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**	**SPLIT SHIELD**
Part number	005.T0093.00	–	–	015.T0093.00	–	–	019.T0093.00[1]
D 1048–1064	L5	–	–	L7	–	–	L7
IR 1048–1064	L6	–	–	L7	–	–	L7
D 9000–11000	L2	–	–	L2	–	–	L2
IR 9000–11000	L2	–	–	L3	–	–	L3

[1]Extention 00: white frame; 01: black frame

Glass Filters for Laser Safety Eyewear

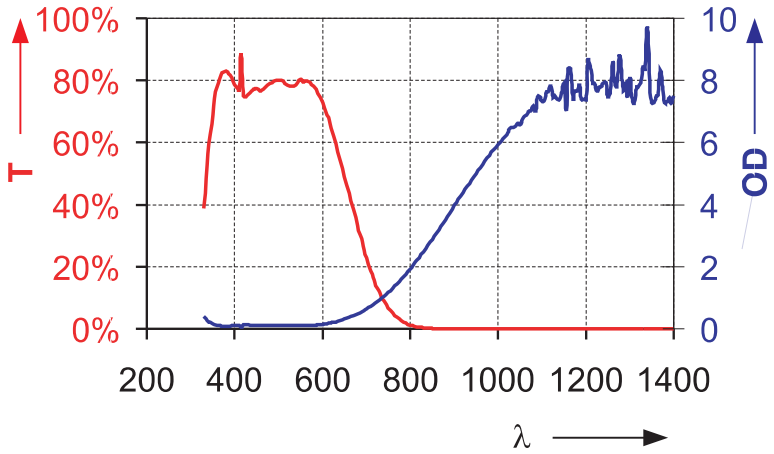
Filter T96

Filter	T96
	Full protection
Colour	light grey
Filter Material	Mineral glass
Filter Technology	Absorption Filter
Certification	DIN GS
VLT (approx.)	75 %
Visual Brightness	very good
Colour View	excellent
Filter Thickness	approx. 3-4 mm *

View of the spectrum seen trough the filter ***

View of the spectrum without filter

Transmission Curve Filter T96**



	standard Frame			reinforced Frame		
Frame	**VISION**	**ECO**	**PROTECTOR**	**VISION**	**ALL STAR**	**PROTECTOR**
Part number	005.T0096.00	007.T0096.00	008.T0096.00	015.T0096.00	012.T0096.00	018.T0096.00
DIR 850–900	L2	L2	L2	L2	L2	L2
DIR >900–950	L3	L3	L3	L3	L3	L3
DIR >950–1030	L4	L4	L4	L4	L4	L4
D >1030–1400	L5	L4	L5	L5	L5	L5
IR >1030–1400	L5	L5	L5	L5	L5	L5
DIR >1400–2200	L2	L2	L2	L4	L4	L4
DIR 2400–2800	L2	L2	L2	L3	L3	L3
DIR >2800–3200	L2	L2	L2	L4	L4	L4
DI >3200–10600	L2	L2	L2	L5	L5	L5
DI >10600–11000	L2	L2	L2	L5	L5	L5
R 3900	L2	L2	L2	L3	L3	L3