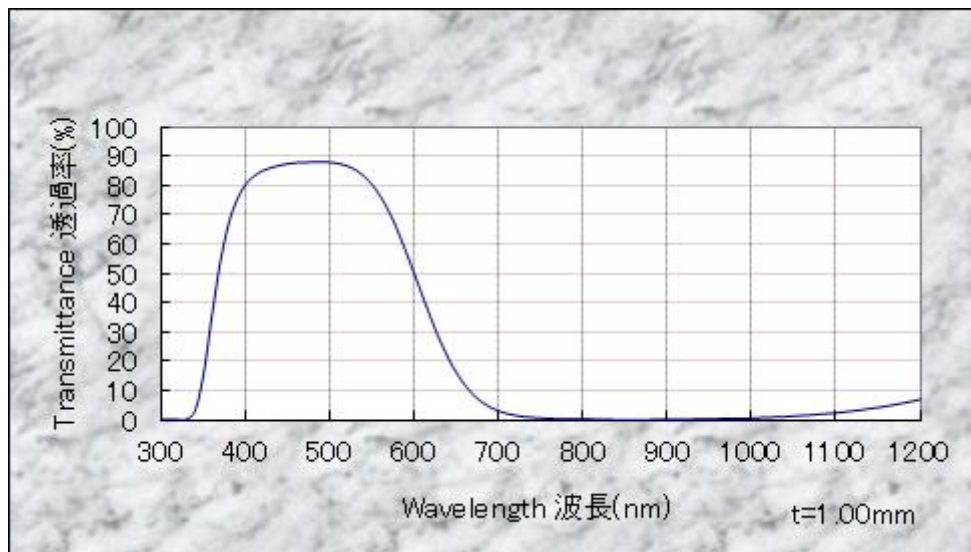


Segment : IR absorption filter (for color correction)

MATSUNAMI GLASS IND., LTD.

Product : BS4



T=1.00mm

λ	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500
T	0.0	0.0	0.0	0.1	3.1	15.5	35.8	54.0	67.0	75.2	80.2	82.9	84.7	85.8	86.5	87.1	87.4	87.5	87.7	87.7	87.6
λ	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710
T	87.2	86.3	85.0	82.9	79.8	75.7	70.5	64.2	57.0	49.3	41.5	33.9	26.9	20.8	15.7	11.5	8.3	5.8	4.1	2.8	1.9
λ	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920
T	1.3	0.9	0.6	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
λ	930	940	950	960	970	980	990	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130
T	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.4	1.5	1.8	2.0	2.2	2.6	2.9	3.3
λ	1140	1150	1160	1170	1180	1190	1200														
T	3.7	4.1	4.6	5.1	5.7	6.2	6.9														

λ = Wavelength(nm) T=Transmittance(%)

<Characteristics>

Product name	BS4
Refractive index (nD)	1.635
Expansion coefficient α[10 ⁻⁷ /°C]	110 (100/300)
Transition point Tg [°C]	503
Deformation point At [°C]	532
Softening point Ts [°C]	603
Knoop hardness Hk	325 (100g/15sec)
Density [g/cm ³]	3.55

60°C/90% RH (non-coated)	1000HR
Optical property (non-coated)	Thickness 1.00mm
300nm	80.2%
400nm	87.6%
500nm	49.3%
600nm	2.8%
Half maximum (50%)	599nm
Composition type	Phosphoric
RoHS regulated substances	Not contained
Halogenated substances	Not contained
Antimony compound	Contained

<Spectral characteristics>

Thickness(mm)	0.110	0.145	0.210	0.218	0.300	0.500	0.700	0.800	1.00
Half maximum (50%)	762nm	720nm	684nm	681nm	658nm	629nm	613nm	608nm	599nm
400nm	90.6%	90.1%	89.3%	89.2%	88.2%	85.9%	83.5%	82.4%	80.2%