

# Sharp Cut Filter (Orange)

0-56

Catalog Thickness t = 2.5 mm

Reflection Factor P<sub>d</sub> = 0.916

Diagram-1

Transmittance (T) & Internal Transmittance (τ) units: (%)

λ <sub>nm</sub>	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	
T																										
τ																										
λ <sub>nm</sub>	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	
T									3·10 <sup>-3</sup>	.33	8.3	38.5	68.0	82.7	87.9	90.3	91.1	91.5								
τ									3·10 <sup>-3</sup>	.36	9.1	42.0	74.2	90.3	96.0	98.6	99.5	99.9								
λ <sub>nm</sub>	700	710	720	730	740	750	800	850	900	950	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	
T																										
τ																										

Refractive Indices

Symbol	i	h	g	F'	F	e	d	D	C'	C	r	A'	t
λ <sub>nm</sub>	365.0	404.7	435.8	480.0	486.1	546.1	587.6	589.3	643.8	656.3	706.5	768.2	1,014.0
n						1.530	1.528	1.528	1.526	1.525	1.524	1.522	1.518

Abbe-Number

$$V_d = \frac{n_d - 1}{n_F - n_C} =$$

Color Specifications

	x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	.612	.387	52.2	597	100
C	.590	.409	39.8	593	100
D <sub>65</sub>	.591	.408	38.9	593	100

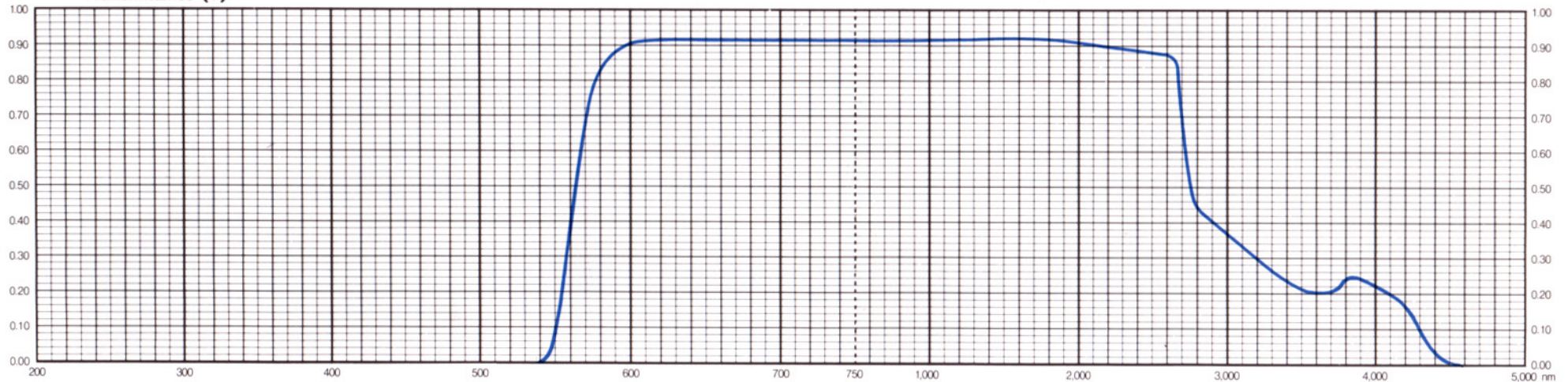
Properties

Chemical		Thermal				Mechanical		Other
D <sub>w</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	$\frac{\alpha}{-30/70}$	$\frac{\alpha}{100/300}$	H <sub>K</sub>	F <sub>A</sub>	S
1	1	560	625	93	104	520	140	2.68

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval	Average High Transmittance
λT(nm)	Δλ(nm)	T <sub>H</sub> (%)
560 ± 5	< 25	> 85

Transmittance (T)



All data are mean values of various melts.