

# Green Filter

G-545

Catalog Thickness t = 2.5 mm

Reflection Factor P<sub>d</sub> = 0.904

Diagram-2

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					.02	.29	1.9	5.1	9.5	12.4	12.9	10.2	7.0	4.0	2.1	1.2	.72	.30	.12	.05	.03	.02	.01	.01	9·10 <sup>-3</sup>	
τ					.02	.32	2.1	5.6	10.5	13.7	14.3	11.3	7.7	4.4	2.3	1.3	.80	.33	.14	.06	.03	.02	.01	.01	.01	
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	5·10 <sup>-3</sup>	6·10 <sup>-3</sup>	7·10 <sup>-3</sup>	9·10 <sup>-3</sup>	.01	.01	.02	.04	.08	.1	.6	3.6	6.5	14.2	21.8	31.2	40.5	48.3	56.0	61.5	66.9	70.0	73.1	75.3	77.5	
τ	6·10 <sup>-3</sup>	7·10 <sup>-3</sup>	8·10 <sup>-3</sup>	.01	.01	.01	.02	.04	.09	.1	.7	3.9	7.2	15.7	24.1	34.5	44.8	53.4	61.9	68.0	74.0	77.4	80.9	83.3	85.7	

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						1.582	1.579						

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	.349	.637	5.2	556	93
C	.327	.656	5.8	554	97
D <sub>65</sub>	.321	.660	5.8	553	96

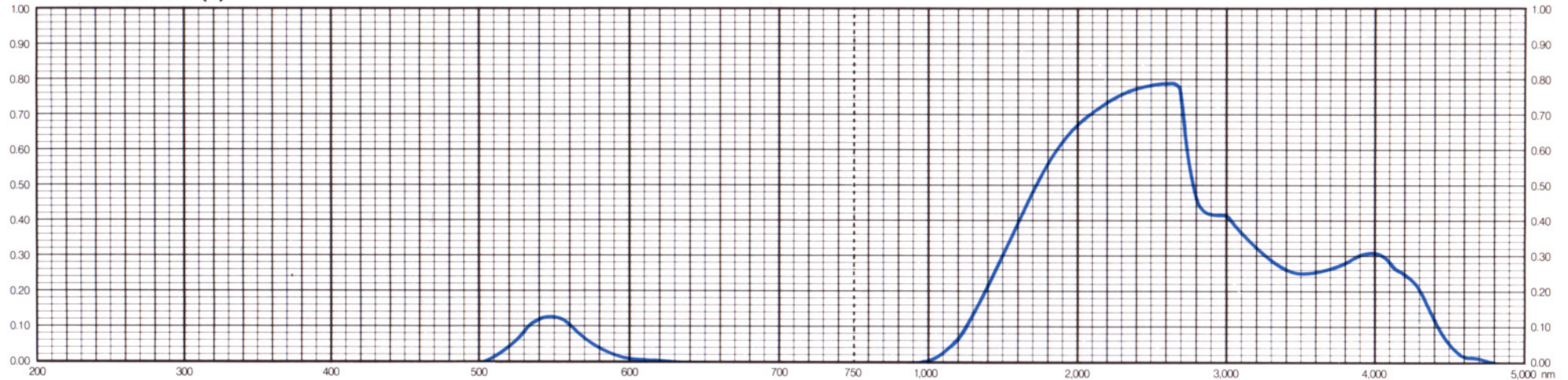
Properties

Chemical		Thermal				Mechanical		Other
D <sub>w</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	α <sub>-30/70</sub>	α <sub>100/300</sub>	H <sub>K</sub>	F <sub>A</sub>	S
4	1	460	510	92	103	500	130	3.10

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Less than 1% Wavelength at Short-wave Side	Less than 5% Wavelength at Long-wave Side
λT <sub>max</sub> (nm)	T <sub>max</sub> (%)	λ <sub>s</sub> 1 (nm)	λ <sub>l</sub> 5 (nm)
545 ± 5	13 ± 3	490	600

Transmittance (T)



All data are mean values of various melts.