

# Ultraviolet Transmitting, Visible Absorbing Filter

**U-340**

Catalog Thickness t = 2.5 mm

Reflection Factor  $P_d = 0.907$

Diagram-7

Transmittance (T) & Internal Transmittance ( $\tau$ ) units: (%)

$\lambda_{nm}$	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						$2 \cdot 10^{-3}$	.55	11.7	38.9	61.3	72.7	77.2	79.0	79.8	79.9	75.5	65.8	46.6	13.1	.22						
$\tau$						$2 \cdot 10^{-3}$	.61	12.9	42.9	67.6	80.2	85.1	87.1	88.0	88.1	83.2	72.5	51.4	14.4	.24						
$\lambda_{nm}$	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																								$2 \cdot 10^{-3}$	.04	.40
$\tau$																								$2 \cdot 10^{-3}$	.04	.44
$\lambda_{nm}$	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	1.4	2.2	2.2	1.9	1.0	.48	.02					.03	.03	.04	.05	.05	.06	.07	.07	.08	.09	.09	.09	.1	.3	.5
$\tau$	1.5	2.4	2.4	2.1	1.1	.53	.02					.03	.03	.04	.06	.06	.07	.08	.08	.09	.1	.1	.1	.1	.3	.6

Refractive Indices

Symbol	i	h	g	F'	F	e	d	D	C'	C	r	A'	t
$\lambda_{nm}$	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							(1.568)						

Abbe-Number

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

Color Specifications

	x	y	Y	$\lambda_d$	$P_e$
A	—	—	—	—	—
C	—	—	—	—	—
$D_{65}$	—	—	—	—	—

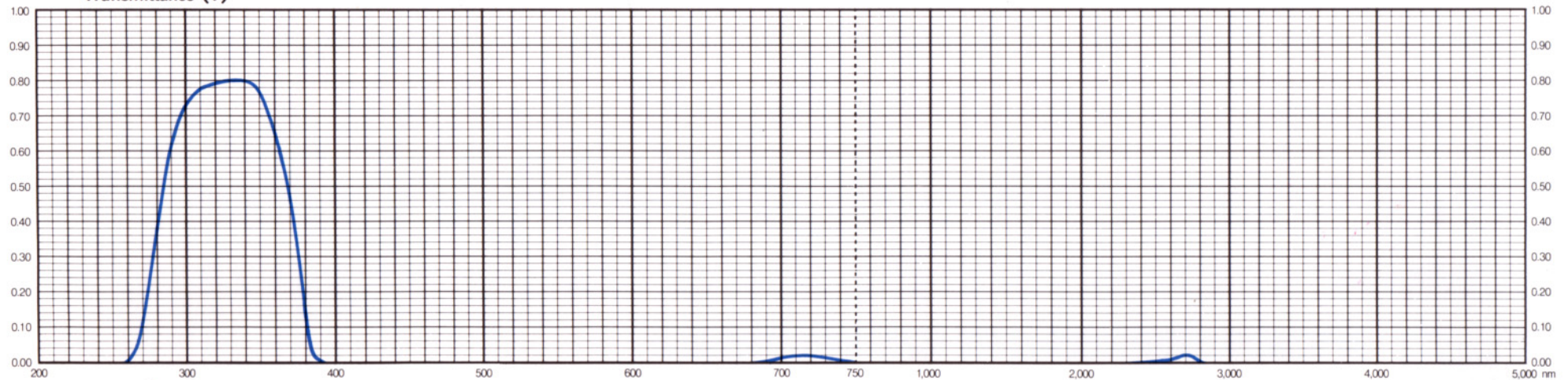
Properties

Chemical		Thermal				Mechanical		Other
$D_w$	$D_A$	$T_g$	$T_s$	$\alpha_{-30/70}$	$\alpha_{100/300}$	$H_K$	$F_A$	S
4	4	530	565	85	96	430	250	2.92

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Transmittance at 254 nm	Transmittance at 405 nm
$\lambda T_{max}$ (nm)	$T_{max}$ (%)	$T_{254}$ (%)	$T_{405}$ (%)
$340 \pm 5$	$75 \pm 5$	< 1.0	< 0.1

Transmittance (T)



All data are mean values of various melts.