

H-K51	523586
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nd =1.52307	vd =58.64	nF - nC =0.00892
ne =1.52520	ve =58.36	nF' - nC' =0.00900

Refractive Indices		
	λ (nm)	
n_r	706.5	1.51883
n_c	656.3	1.52037
$n_{c'}$	643.8	1.52080
n_{He-Ne}	632.8	1.52120
n_D	589.3	1.52299
n_d	587.6	1.52307
n_e	546.1	1.52520
n_F	486.1	1.52929
$n_{F'}$	480.0	1.52980
n_g	435.8	1.53416
n_h	404.7	1.53820
n_i	365.0	1.54510

Chemical Properties	
	Group
RC(S)	2
RA(S)	1
DW	2
DA	1

Internal Transmission		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.890	0.800
2200	0.910	0.828
2000	0.960	0.921
1800	0.981	0.962
1600	0.995	0.990
1400	0.996	0.993
1200	0.999	0.998
1060	0.998	0.997
1000	0.998	0.996
950	0.998	0.996
900	0.997	0.995
850	0.997	0.994
800	0.996	0.993
700	0.996	0.992
650	0.996	0.992
600	0.996	0.992
550	0.996	0.992
500	0.995	0.990
480	0.994	0.989
460	0.994	0.988
440	0.993	0.987
420	0.993	0.987
400	0.993	0.987
390	0.992	0.985
380	0.989	0.979
370	0.987	0.974
360	0.979	0.959
350	0.962	0.925
340	0.922	0.850
330	0.830	0.690
320	0.660	0.430
310	0.360	0.130
300	0.090	0.010
290		
280		

Thermal Properties	
T_g (°C)	541
T_s (°C)	618
$T_{10}^{14.5}$ (°C)	467
T_{10}^{13} (°C)	510
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	82.74
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	94.82

Constants of Dispersion (Cauchy)	
A_0	2.2877828
A_1	$-9.13487231 \times 10^{-3}$
A_2	$1.09864431 \times 10^{-2}$
A_3	$4.84652031 \times 10^{-4}$
A_4	$-3.39447381 \times 10^{-5}$
A_5	$1.69585541 \times 10^{-6}$

Mechanical Properties	
Hardness ($10^7 Pa$)	537
FA (Relative Abrasion)	
Young's Modulus ($10^7 Pa$)	7400
Rigidity Modulus ($10^7 Pa$)	3026
Poisson's Ratio	0.223

Relative Partial Dispersions			
$P_{d,c}$	0.3027	$P'_{d,c'}$	0.2522
$P_{e,d}$	0.2388	$P'_{e,d}$	0.2367
$P_{g,F}$	0.546	$P'_{g,F'}$	0.4844

Photoelastic Constant	
B ($10^{-12}/Pa$)	

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0007
$\Delta P_{g,F}$	-0.0002

Color	
λ_{80}/λ_5	35/31

Specific Gravity	
ρ (g/cm^3)	2.53

NHG	HOYA	OHARA	SCHOTT
B270	C12	NSL51	B270



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