

H-LaK6	694533
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nd =1.69350	vd =53.30	nF - nC =0.013010
ne =1.69660	ve =53.09	nF' - nc' =0.013120

Refractive Indices		
	λ (nm)	
n_r	706.5	1.68731
n_c	656.3	1.68955
$n_{c'}$	643.8	1.69018
n_{He-Ne}	632.8	1.69077
n_D	589.3	1.69339
n_d	587.6	1.69350
n_e	546.1	1.69660
n_F	486.1	1.70256
$n_{F'}$	480.0	1.70330
n_g	435.8	1.70965
n_h	404.7	1.71555
n_i	365.0	1.72565

Constants of Dispersion (Cauchy)	
A_0	2.8125316
A_1	$-1.2915271 \times 10^{-2}$
A_2	1.9960339×10^{-2}
A_3	1.9877888×10^{-4}
A_4	1.7647061×10^{-5}
A_5	$-4.4767632 \times 10^{-7}$

Relative Partial Dispersions			
$P_{d,c}$	0.3036	$P'_{d,c'}$	0.2530
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5450	$P'_{g,F'}$	0.4840

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0025
$\Delta P_{g,F}$	-0.0099

NHG	HOYA	OHARA	SCHOTT
H-LaK6	LAC13	S-LAL13	LAKN13

Chemical Properties	
	Group
RC(S)	1
RA(S)	3
DW	1
DA	3

Thermal Properties	
T_g (°C)	640
T_s (°C)	680
$T_{10}^{14.5}$ (°C)	630
T_{10}^{13} (°C)	635
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	57
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	63

Mechanical Properties	
Hardness ($10^7 Pa$)	700
FA (Relative Abrasion)	70
Young's Modulus ($10^7 Pa$)	104.5
Rigidity Modulus ($10^7 Pa$)	45
Poisson's Ratio	0.269

Photoelastic Constant	
β ($10^{-12}/Pa$)	2.08

Color	
λ_{80}/λ_5	37/31

Specific Gravity	
ρ (g/cm^3)	3.57

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.800	0.740
2200	0.942	0.920
2000	0.980	0.970
1800	0.993	0.984
1600	0.994	0.988
1400	0.991	0.982
1200	0.999	0.999
1060	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.999
850	0.999	0.999
800	0.999	0.999
700	0.999	0.999
650	0.999	0.998
600	0.999	0.998
550	0.999	0.999
500	0.998	0.997
480	0.998	0.996
460	0.998	0.995
440	0.997	0.993
420	0.995	0.990
400	0.990	0.980
390	0.985	0.970
380	0.976	0.952
370	0.960	0.921
360	0.930	0.870
350	0.890	0.790
340	0.820	0.670
330	0.720	0.520
320	0.590	0.340
310	0.390	0.160
300	0.160	0.030
290	0.060	
280		



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