

H-LaK50 652584

nd =1.65160	vd =58.40	nF – nC =0.011157
ne =1.65426	ve =58.15	nF' – nC' =0.011251

Refractive Indices		
	λ (nm)	
n_r	706.5	1.64628
n_c	656.3	1.64821
$n_{c'}$	643.8	1.64875
n_{He-Ne}	632.8	1.64925
n_D	589.3	1.65150
n_d	587.6	1.65160
n_e	546.1	1.65426
n_F	486.1	1.65936
$n_{F'}$	480.0	1.66000
n_g	435.8	1.66538
n_h	404.7	1.67035
n_i	365.0	1.67884

Constants of Dispersion (Cauchy)	
A_0	2.6876223
A_1	$-1.4375187 \times 10^{-2}$
A_2	1.2545954×10^{-2}
A_3	1.4642295×10^{-3}
A_4	$-1.6982461 \times 10^{-4}$
A_5	8.8048639×10^{-6}

Relative Partial Dispersions			
$P_{d,c}$	0.304	$P'_{d,c'}$	0.2533
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5399	$P'_{g,F'}$	0.4782

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0006
$\Delta P_{g,F}$	-0.0067

NHG	HOYA	OHARA	SCHOTT
H-LaK50	LAC7	S-LAL7	N-LAK7

Chemical Properties	
	Group
RC(S)	2
RA(S)	3
DW	4
DA	5

Thermal Properties	
T_g (°C)	645
T_s (°C)	665
$T_{10}^{14.5}$ (°C)	
T_{10}^{13} (°C)	
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	71
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	80

Mechanical Properties	
Hardness ($10^7 Pa$)	572
FA (Relative Abrasion)	0.51
Young's Modulus ($10^7 Pa$)	9758
Rigidity Modulus ($10^7 Pa$)	3820
Poisson's Ratio	0.285

Photoelastic Constant	
β ($10^{-12}/Pa$)	1.88

Color	
λ_{80}/λ_5	37/30

Specific Gravity	
ρ (g/cm^3)	3.62

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.83	0.69
2200	0.95	0.902
2000	0.982	0.965
1800	0.993	0.986
1600	0.997	0.995
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.997
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.998	0.996
460	0.997	0.994
440	0.996	0.991
420	0.994	0.989
400	0.991	0.981
390	0.985	0.97
380	0.977	0.954
370	0.957	0.915
360	0.92	0.85
350	0.87	0.75
340	0.79	0.62
330	0.66	0.43
320	0.51	0.26
310	0.35	0.12
300	0.22	0.05
290	0.1	0.01
280		



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