D-LaK6 694532

nd =1.69350	vd =53.20	nF – nC =0.013036
ne =1.69661	ve =52.97	nF´- nc´ =0.013152

Refractive Indices		
	λ (nm)	
n_r	706.5	1.68730
n_c	656.3	1.68955
$n_{c'}$	643.8	1.69017
n_{He-Ne}	632.8	1.69076
n_D	589.3	1.69338
n_d	587.6	1.69350
n_e	546.1	1.69661
n_F	486.1	1.70258
$n_{F'}$	480.0	1.70333
n_g	435.8	1.70970
n_h	404.7	1.71564
n_i	365.0	1.72581

Constants of Dispersion (Cauchy)	
A_0	2.813412
A_1	-1.3324481×10^{-2}
A_2	1.9278652×10^{-2}
A_3	4.1244521×10^{-4}
A_4	-9.9404319×10^{-6}
A_5	9.6220244×10^{-7}

Relative Partial Dispersions			
$P_{d,c}$	0.3031	$P'_{d,c'}$	0.253
$P_{e,d}$	0.2387	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5464	$P'_{g,F'}$	0.4840

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0027
$\triangle P_{g,F}$	-0.0088

NHG	HOYA	OHARA	SCHOTT
D-LaK6	M-LAC130	L-LAL12	

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

Thermal Properties	
Tg (℃)	522
T_S (℃)	571
$T_{10}^{14.5}$ (℃)	
T_{10}^{13} (℃)	
$\alpha_{20/120℃}$ (10^{-7}/K)	71.29
$\alpha_{20/300℃}$ (10^{-7}/K)	81.17

Mechanical Properties	
Hardness (10^7Pa)	650
F_A (Relative Abrasion)	
Young's Modulus (10^7Pa)	11350
Rigidity Modulus (10^7Pa)	4400
Poisson's Ratio	0.289

Stress-Optical Coefficient	
B (10^{-12}/Pa)	2.01

Color	
λ_{80}/λ_5	37/29

Specific Gravity	
ρ (g/cm^3)	3.50

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400		
2200		
2000		
1800		
1600		
1400		
1200		
1060		
1000		
950		
900		
850		
800		
700	0.999	0.998
650	0.999	0.997
600	0.999	0.997
550	0.999	0.997
500	0.998	0.996
480	0.997	0.995
460	0.996	0.993
440	0.995	0.989
420	0.993	0.986
400	0.989	0.979
390	0.985	0.971
380	0.978	0.957
370	0.966	0.934
360	0.95	0.9
350	0.91	0.82
340	0.85	0.73
330	0.77	0.59
320	0.66	0.44
310	0.52	0.27
300	0.37	0.14
290	0.2	0.04
280	0.06	

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