

H-LaK4L 640602

nd =1.64000	vd =60.20	nF - nC =0.010631
ne =1.64254	ve =60.00	nF' - nc' =0.010709

Refractive Indices

	λ (nm)	
n_r	706.5	1.63486
n_c	656.3	1.63674
$n_{c'}$	643.8	1.63726
n_{He-Ne}	632.8	1.63775
n_D	589.3	1.63990
n_d	587.6	1.64000
n_e	546.1	1.64254
n_F	486.1	1.64737
$n_{F'}$	480.0	1.64797
n_g	435.8	1.65307
n_h	404.7	1.65777
n_i	365.0	1.66577

Constants of Dispersion (Cauchy)

A_0	2.9883142
A_1	$-1.45132381 \times 10^{-2}$
A_2	$2.20738021 \times 10^{-2}$
A_3	$6.20815021 \times 10^{-4}$
A_4	$-3.71344771 \times 10^{-5}$
A_5	$3.10076061 \times 10^{-6}$

Relative Partial Dispersions

$P_{d,c}$	0.3068	$P'_{d,c'}$	0.2559
$P_{e,d}$	0.2387	$P'_{e,d}$	0.2369
$P_{g,F}$	0.5387	$P'_{g,F'}$	0.4761

Deviation of Relative Partial Dispersions

$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0072

Chemical Properties

	Group
RC(S)	1
RA(S)	3
DW	4
DA	4

Thermal Properties

T_g (°C)	649
T_s (°C)	683
$T_{10}^{14.5}$ (°C)	610
T_{10}^{13} (°C)	639
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	68.09
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	74.83

Mechanical Properties

Hardness ($10^7 Pa$)	634
FA (Relative Abrasion)	
Young's Modulus ($10^7 Pa$)	10903
Rigidity Modulus ($10^7 Pa$)	4236
Poisson's Ratio	0.287

Photoelastic Constant

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

Color

λ_{80}/λ_5	35/28
--------------------------	-------

Specific Gravity

ρ (g/cm^3)	3.62
---------------------	------

Internal Transmittance

λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.76	0.58
2200	0.918	0.842
2000	0.975	0.951
1800	0.99	0.98
1600	0.995	0.991
1400	0.998	0.996
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.998	0.997
650	0.998	0.997
600	0.998	0.997
550	0.998	0.996
500	0.997	0.995
480	0.997	0.994
460	0.995	0.991
440	0.994	0.988
420	0.992	0.984
400	0.987	0.974
390	0.981	0.963
380	0.971	0.943
370	0.953	0.908
360	0.92	0.847
350	0.87	0.76
340	0.79	0.63
330	0.69	0.47
320	0.56	0.31
310	0.42	0.17
300	0.29	0.08
290	0.19	0.04
280	0.12	0.01

NHG	HOYA	OHARA	SCHOTT
H-LaK4L	LACL60	S-BSM81	N-LAK21



Naked Optics Corp.
 16 Mt. Bethel Rd. #374
 Warren, NJ 07059
 908-685-0352 (ph) . 908-325-0250 (fax)