

H-ZK14	603606
---------------	---------------

nd =1.60311	vd =60.6	nF - nC =0.009952
ne =1.60548	ve =60.35	nF' - nc' =0.010033

Refractive Indices		
	λ (nm)	
n_r	706.5	1.59834
n_c	656.3	1.60007
$n_{c'}$	643.8	1.60056
n_{He-Ne}	632.8	1.60101
n_D	589.3	1.60302
n_d	587.6	1.60311
n_e	546.1	1.60548
n_F	486.1	1.61003
$n_{F'}$	480.0	1.61059
n_g	435.8	1.61541
n_h	404.7	1.61988
n_i	365.0	1.62748

Constants of Dispersion (Cauchy)	
A_0	2.5304905
A_1	$-1.03279921 \times 10^{-2}$
A_2	$1.41760511 \times 10^{-2}$
A_3	$2.50930711 \times 10^{-4}$
A_4	$-7.64871561 \times 10^{-6}$
A_5	$7.32829741 \times 10^{-7}$

Relative Partial Dispersions			
$P_{d,c}$	0.3052	$P'_{d,c'}$	0.2542
$P_{e,d}$	0.238	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5402	$P'_{g,F'}$	0.4806

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0028

NHG	HOYA	OHARA	SCHOTT
H-ZK14	BaCD14	S-BSM14	N-SK14

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

Thermal Properties	
T_g (°C)	637
T_s (°C)	687
$T_{10}^{14.5}$ (°C)	590
T_{10}^{13} (°C)	620
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	66
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	74

Mechanical Properties	
Hardness ($10^7 Pa$)	573
FA (Relative Abrasion)	0.72
Young's Modulus ($10^7 Pa$)	8460
Rigidity Modulus ($10^7 Pa$)	3370
Poisson's Ratio	0.257

Stress-Optical Coefficient	
B ($10^{-12}/Pa$)	1.99

Color	
λ_{80}/λ_5	35/30

Specific Gravity	
ρ (g/cm^3)	3.38

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.8	0.64
2200	0.88	0.77
2000	0.968	0.937
1800	0.979	0.958
1600	0.99	0.98
1400	0.995	0.99
1200	0.997	0.995
1060	0.998	0.996
1000	0.998	0.996
950	0.998	0.996
900	0.998	0.996
850	0.998	0.997
800	0.998	0.997
700	0.998	0.997
650	0.998	0.997
600	0.998	0.997
550	0.999	0.998
500	0.998	0.997
480	0.998	0.996
460	0.997	0.995
440	0.997	0.994
420	0.997	0.994
400	0.995	0.991
390	0.992	0.985
380	0.988	0.976
370	0.98	0.961
360	0.965	0.931
350	0.933	0.87
340	0.88	0.78
330	0.8	0.64
320	0.67	0.45
310	0.50	0.25
300	0.30	0.09
290	0.14	0.02
280		



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