

D-ZK2 583595

nd = 1.58313	vd = 59.46	nF - nC = 0.009807
ne = 1.58547	ve = 59.22	nF' - nc' = 0.009887

Refractive Indices

	λ (nm)	
n_r	706.5	1.57843
n_c	656.3	1.58014
$n_{c'}$	643.8	1.58061
n_{He-Ne}	632.8	1.58106
n_D	589.3	1.58304
n_d	587.6	1.58313
n_e	546.1	1.58547
n_F	486.1	1.58995
$n_{F'}$	480.0	1.59050
n_g	435.8	1.59525
n_h	404.7	1.59963
n_i	365.0	1.60713

Constants of Dispersion (Cauchy)

A_0	2.4687806
A_1	$-1.0626393 \times 10^{-2}$
A_2	1.3251843×10^{-2}
A_3	4.0486120×10^{-4}
A_4	$-2.9747988 \times 10^{-5}$
A_5	1.8258838×10^{-6}

Relative Partial Dispersions

$P_{d,c}$	0.3048	$P'_{d,c'}$	0.2548
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2366
$P_{g,F}$	0.5403	$P'_{g,F'}$	0.4803

Deviation of Relative Partial Dispersions

$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0046

Chemical Properties

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

Thermal Properties

Tg (°C)	505
T _S (°C)	547
T ₁₀ ^{14.5} (°C)	
T ₁₀ ¹³ (°C)	
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	71.68
$\alpha_{20/300^\circ C}$ (10 ⁻⁷ /K)	83.56

Mechanical Properties

Hardness (10 ⁷ Pa)	579
FA (Relative Abrasion)	0.7
Young's Modulus (10 ⁷ Pa)	8610
Rigidity Modulus (10 ⁷ Pa)	3463
Poisson's Ratio	0.252

Photoelastic Constant

β (10 ⁻¹² /Pa)	2.24
-----------------------------------	------

Color

λ_{80}/λ_5	35/29
--------------------------	-------

Specific Gravity

ρ (g/cm ³)	2.96
------------------------------	------

Internal Transmittance

λ (nm)	τ_{5mm}	τ_{10mm}
2400		
2200		
2000		
1800		
1600		
1400		
1200		
1060		
1000		
950		
900		
850		
800		
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	0.999	0.998
460	0.998	0.997
440	0.998	0.996
420	0.998	0.995
400	0.996	0.992
390	0.994	0.987
380	0.99	0.98
370	0.984	0.969
360	0.973	0.947
350	0.953	0.909
340	0.92	0.84
330	0.86	0.73
320	0.76	0.58
310	0.62	0.39
300	0.44	0.2
290	0.27	0.07
280	0.13	0.02

NHG	HOYA	OHARA	SCHOTT
D-ZK2	M-BACD12	L-BAL42	



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