

H-BaK8 573575

$n_d = 1.5725$	$vd = 57.49$	$nF - nC = 0.009959$
$n_e = 1.57487$	$ve = 57.2$	$nF' - nc' = 0.010051$

Refractive Indices

	λ (nm)	
n_r	706.5	1.56777
n_c	656.3	1.56948
$n_{c'}$	643.8	1.56996
n_{He-Ne}	632.8	1.57041
n_D	589.3	1.57241
n_d	587.6	1.5725
n_e	546.1	1.57487
n_F	486.1	1.57944
$n_{F'}$	480.0	1.58001
n_g	435.8	1.58491
n_h	404.7	1.58947
n_i	365.0	1.59726

Constants of Dispersion (Cauchy)

A_0	2.4325095
A_1	$-8.29832011 \times 10^{-3}$
A_2	$1.46099761 \times 10^{-2}$
A_3	$1.53972911 \times 10^{-7}$
A_4	$3.72757821 \times 10^{-5}$
A_5	$-1.76216731 \times 10^{-6}$

Relative Partial Dispersions

$P_{d,c}$	0.3032	$P'_{d,c'}$	0.2527
$P_{e,d}$	0.238	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5492	$P'_{g,F'}$	0.4876

Deviation of Relative Partial Dispersions

$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0011

Chemical Properties

	Group
RC(S)	1
RA(S)	3
DW	1
DA	2

Thermal Properties

T_g (°C)	593
T_s (°C)	662
$T_{10}^{14.5}$ (°C)	
T_{10}^{13} (°C)	
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	78
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	85

Mechanical Properties

Hardness ($10^7 Pa$)	530
FA (Relative Abrasion)	0.69
Young's Modulus ($10^7 Pa$)	7378
Rigidity Modulus ($10^7 Pa$)	2972
Poisson's Ratio	0.241

Photoelastic Constant

β ($10^{-12}/Pa$)	
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Color

λ_{80}/λ_5	35/30
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Specific Gravity

ρ (g/cm^3)	3.18
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Internal Transmission

λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.925	0.856
2200	0.956	0.914
2000	0.976	0.953
1800	0.99	0.98
1600	0.996	0.992
1400	0.998	0.996
1200	0.998	0.997
1060	0.998	0.997
1000	0.998	0.997
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
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	0.999	0.998
440	0.999	0.998
420	0.998	0.996
400	0.996	0.993
390	0.993	0.986
380	0.986	0.973
370	0.973	0.946
360	0.963	0.927
350	0.93	0.86
340	0.86	0.74
330	0.74	0.55
320	0.56	0.31
310	0.32	0.1
300	0.04	
290		
280		

NHG	HOYA	OHARA	SCHOTT
H-BaK8	BaC1	S-BaL11	N-BaK1



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