

H-K9	516641
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nd =1.51637	vd =64.07	nF - nC =0.00806
ne =1.51829	ve =63.95	nF' - nc' =0.00810

Refractive Indices		
	λ (nm)	
n_r	706.5	1.51247
n_c	656.3	1.51390
$n_{c'}$	643.8	1.51430
n_{He-Ne}	632.8	1.51467
n_D	589.3	1.51630
n_d	587.6	1.51637
n_e	546.1	1.51829
n_F	486.1	1.52196
$n_{F'}$	480.0	1.52240
n_g	435.8	1.52627
n_h	404.7	1.52982
n_i	365.0	1.53582

Constants of Dispersion (Cauchy)	
A_0	2.269185
A_1	-9.449785×10^{-3}
A_2	1.163685×10^{-2}
A_3	-1.380360×10^{-4}
A_4	4.419505×10^{-5}
A_5	-2.344665×10^{-6}

Relative Partial Dispersions			
$P_{d,c}$	0.3087	$P'_{d,c'}$	0.2556
$P_{e,d}$	0.246	$P'_{e,d}$	0.237
$P_{g,F}$	0.5462	$P'_{g,F'}$	0.4778

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	-0.0024

NHG	HOYA	OHARA	SCHOTT
H-K9		S-BSL7	

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

Thermal Properties	
T_g (°C)	562
T_s (°C)	630
$T_{10}^{14.5}$ (°C)	511
T_{10}^{13} (°C)	547
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	70
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	84.6

Mechanical Properties	
Hardness ($10^7 Pa$)	595
FA (Relative Abrasion)	1
Young's Modulus ($10^7 Pa$)	7920
Rigidity Modulus ($10^7 Pa$)	3270
Poisson's Ratio	0.211

Photoelastic Constant	
β ($10^{-12}/Pa$)	2.7

Color	
λ_{80}/λ_5	33/29

Specific Gravity	
ρ (g/cm^3)	2.49

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.86	0.74
2200	0.93	0.86
2000	0.96	0.922
1800	0.985	0.97
1600	0.99	0.98
1400	0.995	0.99
1200	0.998	0.996
1060	0.998	0.996
1000	0.999	0.997
950	0.999	0.997
900	0.999	0.998
850	0.999	0.998
800	0.999	0.999
700	0.999	0.999
650	0.999	0.998
600	0.999	0.999
550	0.999	0.999
500	0.999	0.998
480	0.999	0.998
460	0.999	0.998
440	0.999	0.997
420	0.999	0.998
400	0.999	0.998
390	0.998	0.997
380	0.997	0.993
370	0.997	0.993
360	0.994	0.988
350	0.989	0.977
340	0.977	0.954
330	0.95	0.91
320	0.9	0.8
310	0.8	0.63
300	0.61	0.38
290	0.36	0.13
280	0.14	0.02



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