

<b>H-K9L</b>	<b>517642</b>
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nd =1.51680	vd =64.2	nF - nC =0.00805
ne =1.51872	ve =64	nF' - nc' =0.008105

Refractive Indices		
	$\lambda$ ( nm )	
$n_r$	706.5	1.51289
$n_c$	656.3	1.51432
$n_{c'}$	643.8	1.51472
$n_{He-Ne}$	632.8	1.51509
$n_D$	589.3	1.51673
$n_d$	587.6	1.51680
$n_e$	546.1	1.51872
$n_F$	486.1	1.52237
$n_{F'}$	480.0	1.52282
$n_g$	435.8	1.52667
$n_h$	404.7	1.53022
$n_i$	365.0	1.53622

Constants of Dispersion (Cauchy)	
$A_0$	2.2702566
$A_1$	$-9.19881011 \times 10^{-3}$
$A_2$	$1.16097061 \times 10^{-2}$
$A_3$	$-7.61239111 \times 10^{-5}$
$A_4$	$2.85587271 \times 10^{-5}$
$A_5$	$-1.25664861 \times 10^{-6}$

Relative Partial Dispersions			
$P_{d,c}$	0.3081	$P'_{d,c'}$	0.2568
$P_{e,d}$	0.2385	$P'_{e,d}$	0.237
$P_{g,F}$	0.5342	$P'_{g,F'}$	0.4753

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0013
$\Delta P_{g,F}$	-0.0028

NHG	HOYA	OHARA	SCHOTT
H-K9L	BSC7	S-BSL7	N-BK7

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

Thermal Properties	
$T_g$ ( °C )	569
$T_s$ ( °C )	637
$T_{10}^{14.5}$ ( °C )	511
$T_{10}^{13}$ ( °C )	547
$\alpha_{20/120^\circ C}$ ( $10^{-7}/K$ )	71.72
$\alpha_{20/300^\circ C}$ ( $10^{-7}/K$ )	82.65

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	
$\beta$ ( $10^{-12}/Pa$ )	2.7

Color	
$\lambda_{80}/\lambda_5$	33/29

Specific Gravity	
$\rho$ ( $g/cm^3$ )	2.49

Internal Transmission		
$\lambda$ ( nm )	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.860	0.740
2200	0.930	0.860
2000	0.960	0.922
1800	0.985	0.970
1600	0.990	0.980
1400	0.995	0.990
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	0.950	0.910
320	0.900	0.800
310	0.800	0.630
300	0.610	0.380
290	0.360	0.130
280	0.140	0.020



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