

<b>H-ZLaF69</b>	<b>816465</b>	$n_d=1.81600$	$\nu_d=46.54$	$n_F - n_C = 0.017530$
		$n_e=1.82016$	$\nu_e=46.31$	$n_{F'} - n_{C'} = 0.017710$

Refractive Indices		
	$\lambda$ (nm)	
$n_t$	1014.0	1.79725
$n_r$	706.5	1.80779
$n_c$	656.3	1.81074
$n_{c'}$	643.8	1.81157
$n_{He-Ne}$	632.8	1.81235
$n_D$	589.3	1.81585
$n_d$	587.6	1.81600
$n_e$	546.1	1.82016
$n_F$	486.1	1.82828
$n_{F'}$	480.0	1.82928
$n_g$	435.8	1.83802
$n_h$	404.7	1.84622
$n_i$	365.0	1.86041

Constants of Dispersion Formula	
Formula	
$A_0$	3.2148109
$A_1$	$-1.2992517 \times 10^{-2}$
$A_2$	$2.9243707 \times 10^{-2}$
$A_3$	$1.8800218 \times 10^{-4}$
$A_4$	$5.7106547 \times 10^{-5}$
$A_5$	$-1.9571482 \times 10^{-6}$

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0105

Temperature Coefficients of Refractive Index						
Rang of Temperature (°C)	$dn/dt \text{ rel}(10^{-6}/^\circ\text{C})$					
	t	C'	d	e	F'	g
-40~-20	1.6	2.4	2.9	3.0	3.3	3.8
-20~0	2.7	3.0	3.3	3.5	4.3	4.9
0~20	3.0	3.1	3.4	3.9	4.4	4.9
20~40	3.1	3.8	3.8	4.4	4.7	5.5
40~60	3.1	3.8	4.0	4.4	4.9	5.6
60~80	3.1	3.8	4.3	4.4	5.1	6.0

Relative Partial Dispersions			
$P_{d,c}$	0.2998	$P'_{d,c'}$	0.2499
$P_{e,d}$	0.2376	$P'_{e,d}$	0.2352
$P_{g,F}$	0.5559	$P'_{g,F'}$	0.4933

Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
$D_W$	1
$D_A$	2

Thermal Properties	
$T_g$ (°C)	720
$T_s$ (°C)	747
$T_{10}^{14.5}$ (°C)	665
$T_{10}^{13}$ (°C)	693
$T_{10}^{7.6}$ (°C)	797
$\alpha_{20/120^\circ\text{C}}(10^{-7}/\text{K})$	66
$\alpha_{1000/300^\circ\text{C}}(10^{-7}/\text{K})$	78
$\lambda$ (W/m·K)	

Mechanical Properties	
$H_K$	721
$F_A$	128
$E$ ( $10^7$ Pa)	12469
$G$ ( $10^7$ Pa)	4802
$\mu$	0.298
$B$ ( $10^{-12}$ /Pa)	

Other Properties	
$\rho$ (g/cm <sup>3</sup> )	5.01

Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5 mm	$\tau$ 10 mm
2400	0.877	0.770
2200	0.967	0.936
2000	0.988	0.976
1800	0.996	0.992
1600	0.998	0.997
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.996	0.992
700	0.996	0.992
650	0.996	0.992
600	0.996	0.993
550	0.996	0.993
500	0.995	0.991
480	0.994	0.989
460	0.992	0.985
440	0.989	0.979
420	0.987	0.974
400	0.981	0.962
390	0.975	0.951
380	0.965	0.931
370	0.947	0.898
360	0.919	0.845
350	0.87	0.76
340	0.81	0.66
330	0.72	0.52
320	0.62	0.38
310	0.40	0.16
300	0.32	0.10
290	0.17	0.03
280		

Coloration Code	
$\lambda_{80}/\lambda_5$	
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