

<b>H-ZLaF66</b>	<b>801350</b>
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nd =1.80100	vd =34.97	nF - nC =0.022907
ne =1.80642	ve =34.72	nF' - nc' =0.023227

Refractive Indices		
	$\lambda$ ( nm )	
$n_r$	706.5	1.79055
$n_c$	656.3	1.79427
$n_{c'}$	643.8	1.79533
$n_{He-Ne}$	632.8	1.79632
$n_D$	589.3	1.8008
$n_d$	587.6	1.801
$n_e$	546.1	1.80642
$n_F$	486.1	1.81718
$n_{F'}$	480.0	1.81856
$n_g$	435.8	1.83061
$n_h$	404.7	1.84236
$n_i$	365.0	1.86391

Constants of Dispersion (Cauchy)	
$A_0$	3.1328858
$A_1$	$-9.1815181 \times 10^{-3}$
$A_2$	$3.8534276 \times 10^{-2}$
$A_3$	$-1.5369762 \times 10^{-4}$
$A_4$	$1.4726280 \times 10^{-4}$
$A_5$	$-1.1427587 \times 10^{-7}$

Relative Partial Dispersions			
$P_{d,c}$	0.2938	$P'_{d,c'}$	0.2441
$P_{e,d}$	0.2366	$P'_{e,d}$	0.2333
$P_{g,F}$	0.5862	$P'_{g,F'}$	0.5187

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	0.0007

NHG	HOYA	OHARA	SCHOTT
H - ZLaF66		S - LAM66	

Chemical Properties	
	Group
RC(S)	1
RA(S)	3
DW	1
DA	5

Thermal Properties	
$T_g$ ( °C )	653
$T_s$ ( °C )	703
$T_{10}^{14.5}$ ( °C )	609
$T_{10}^{13}$ ( °C )	645
$\alpha_{20/120^\circ C}$ ( $10^{-7}/K$ )	83
$\alpha_{20/300^\circ C}$ ( $10^{-7}/K$ )	92

Mechanical Properties	
Hardness ( $10^7 Pa$ )	642
FA (Relative Abrasion)	
Young's Modulus ( $10^7 Pa$ )	10927
Rigidity Modulus ( $10^7 Pa$ )	4263
Poisson's Ratio	0.281

Stress-Optical Coefficient	
$B$ ( $10^{-12}/Pa$ )	

Color	
$\lambda_{80}/\lambda_5$	43/35

Specific Gravity	
$\rho$ ( $g/cm^3$ )	3.81

Internal Transmittance		
$\lambda$ ( nm )	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.901	0.812
2200	0.962	0.925
2000	0.985	0.97
1800	0.993	0.987
1600	0.999	0.998
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	0.998	0.997
700	0.998	0.996
650	0.997	0.995
600	0.996	0.992
550	0.994	0.989
500	0.989	0.978
480	0.985	0.971
460	0.98	0.961
440	0.973	0.947
420	0.959	0.919
400	0.942	0.853
390	0.88	0.78
380	0.81	0.66
370	0.67	0.45
360	0.4	0.16
350	0.1	0.01
340		
330		
320		
310		
300		
290		
280		



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