

<b>H-LaF6L</b>	<b>757477</b>
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nd =1.75700	vd =47.71	nF - nC =0.015866
ne =1.76078	ve =47.47	nF' - nc' =0.016028

Refractive Indices		
	$\lambda$ ( nm )	
$n_r$	706.5	1.74954
$n_c$	656.3	1.75223
$n_{c'}$	643.8	1.75298
$n_{He-Ne}$	632.8	1.75369
$n_D$	589.3	1.75686
$n_d$	587.6	1.75700
$n_e$	546.1	1.76078
$n_F$	486.1	1.76809
$n_{F'}$	480.0	1.76901
$n_g$	435.8	1.77690
$n_h$	404.7	1.78428
$n_i$	365.0	1.79705

Chemical Properties	
	Group
RC(S)	1
RA(S)	3
DW	1
DA	4

Internal Transmittance		
$\lambda$ ( nm )	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.83	0.69
2200	0.956	0.913
2000	0.982	0.965
1800	0.995	0.99
1600	0.998	0.996
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	0.998	0.997
850	0.998	0.996
800	0.994	0.988
700	0.994	0.988
650	0.994	0.989
600	0.994	0.988
550	0.994	0.988
500	0.994	0.989
480	0.993	0.987
460	0.991	0.983
440	0.989	0.978
420	0.985	0.971
400	0.978	0.957
390	0.972	0.945
380	0.96	0.921
370	0.94	0.88
360	0.91	0.82
350	0.85	0.72
340	0.77	0.59
330	0.66	0.43
320	0.5	0.25
310	0.26	0.07
300	0.04	
290		
280		

Thermal Properties	
$T_g$ ( °C )	664
$T_s$ ( °C )	695
$T_{10}^{14.5}$ ( °C )	
$T_{10}^{13}$ ( °C )	
$\alpha_{20/120^\circ C}$ ( $10^{-7}/K$ )	53.48
$\alpha_{20/300^\circ C}$ ( $10^{-7}/K$ )	60.98

Constants of Dispersion (Cauchy)	
$A_0$	3.0170177
$A_1$	$-1.3625149 \times 10^{-2}$
$A_2$	$2.4142489 \times 10^{-2}$
$A_3$	$5.9520693 \times 10^{-4}$
$A_4$	$-1.2146589 \times 10^{-5}$
$A_5$	$1.4445534 \times 10^{-6}$

Mechanical Properties	
Hardness ( $10^7 Pa$ )	677
FA (Relative Abrasion)	
Young's Modulus ( $10^7 Pa$ )	10906
Rigidity Modulus ( $10^7 Pa$ )	4184
Poisson's Ratio	0.308

Relative Partial Dispersions			
$P_{d,c}$	0.3008	$P'_{d,c'}$	0.2508
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5555	$P'_{g,F'}$	0.4922

Photoelastic Constant	
$\beta$ ( $10^{-12}/Pa$ )	2.29

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.003
$\Delta P_{g,F}$	-0.0089

Color	
$\lambda_{80}/\lambda_5$	37/30

Specific Gravity	
$\rho$ ( $g/cm^3$ )	4.11

NHG	HOYA	OHARA	SCHOTT
H-LaF6L	NBF2	S-LAM54	



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