光明光电光学玻璃产品数据库

H-LaF3	744449	n_d=1.74400	ν_d=44.90	$n_F - n_C$ =0.016570
		n_e=1.74794	ν_e=44.63	$n_{F'} - n_{C'}$ =0.016760

Refractive Indices		
	λ (nm)	
n_t	1014.0	
n_r	706.5	1.73630
n_C	656.3	1.73906
$n_{C'}$	643.8	1.73984
n_{He-Ne}	632.8	1.74057
n_D	589.3	1.74386
n_d	587.6	1.74400
n_e	546.1	1.74794
n_F	486.1	1.75563
$n_{F'}$	480.0	1.75660
n_g	435.8	1.76496
n_h	404.7	1.77285
n_i	365.0	1.78660

Constants of Dispersion Formula	
A_0	2.9657374
A_1	-9.6571624×10^{-3}
A_2	2.6024525×10^{-2}
A_3	3.6684641×10^{-4}
A_4	2.8205551×10^{-5}
A_5	-1.3739929×10^{-7}

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	-0.0010
$\Delta P_{g,F}$	-0.0064

Relative Partial Dispersions			
$P_{d,C}$	0.2982	$P'_{d,C'}$	0.2484
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2352
$P_{g,F}$	0.5628	$P'_{g,F'}$	0.4988

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

Thermal Properties	
T_g (℃)	682
T_s (℃)	736
$T_{10^{14.5}}$ (℃)	625
$T_{10^{13}}$ (℃)	667
$T_{10^{7.6}}$(℃)	
$\alpha_{20/120℃}$(10^{-7}/K)	75
$\alpha_{100/300℃}$(10^{-7}/K)	88
λ (W/m・K)	

Mechanical Properties	
H_K (10^7Pa)	511
F_A	
E (10^7Pa)	8587
G (10^7Pa)	3325
μ	0.291
B (10^{-12}/Pa)	

Other Properties	
ρ (g/cm³)	4.36

Internal Transmittance		
λ (nm)	τ 5 mm	τ 10 mm
2400	0.918	0.843
2200	0.963	0.928
2000	0.982	0.965
1800	0.991	0.982
1600	0.997	0.995
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	0.998	0.996
800	0.996	0.992
700	0.995	0.991
650	0.995	0.990
600	0.994	0.989
550	0.994	0.989
500	0.992	0.985
480	0.991	0.982
460	0.989	0.978
440	0.987	0.975
420	0.986	0.972
400	0.980	0.961
390	0.974	0.948
380	0.960	0.921
370	0.934	0.872
360	0.88	0.78
350	0.81	0.65
340	0.68	0.46
330	0.48	0.23
320	0.24	0.06
310		
300		
290		
280		

Coloration Code	
λ_{80}/λ_5	38/32

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative(10^{-6}/℃)					
	t	C'	d	e	F'	g
-40～-20						
-20～0						
0～20						
20～40						
40～60						
60～80						

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