

H-ZLaF56		806333	n _d = 1.80610		v _d = 33.27		n _F − n _C = 0.024229										
			n _e = 1.81184		v _e = 33.03		n _{F'} − n _{C'} = 0.024579										
Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance										
	λ (nm)	n _λ					λ (nm)	τ5mm	τ10mm								
n ₂₃₂₅	2325.42	1.75788					2400	0.963	0.930								
n ₁₉₇₀	1970.09	1.76418					2200	0.986	0.977								
n ₁₅₃₀	1529.58	1.77151					2000	0.998	0.996								
n ₁₁₂₉	1128.64	1.77906					1800	0.998	0.996								
n ₁₀₆₄	1064.00	1.78060	P' _{d,c'}	0.2429	D _A	1	1600	0.998	0.996								
n _t	1013.98	1.78192	P' _{e,d}	0.2335	R _{OH} (S)	1	1400	0.998	0.996								
n _s	852.11	1.78735	P' _{g,F'}	0.5244	RP (S)	1	1200	0.998	0.996								
n _{A'}	768.19	1.79134	Deviation of Relative Partial Dispersions		Expansion Coefficient α (×10 ⁻⁷ /K)		1060	0.998	0.996								
n _r	706.52	1.79512					1000	0.998	0.996								
n _C	656.27	1.79902					950	0.998	0.996								
n _{C'}	643.85	1.80013					900	0.998	0.996								
n _{He-Ne}	632.80	1.80117					850	0.998	0.996								
n _D	589.29	1.80589	Thermal Properties		-30/-20	68	800	0.998	0.996								
n _d	587.56	1.80610	T _g (°C)		650	-20/-10	69	700	0.998	0.996							
n _e	546.07	1.81184	T _s (°C)		695	-10/0	70	650	0.998	0.996							
n _F	486.13	1.82325	T ₁₀ ^{14.5} (°C)		582	0/10	71	600	0.998	0.996							
n _{F'}	479.99	1.82471	T ₁₀ ¹³ (°C)		614	10/20	72	550	0.996	0.991							
n _g	435.84	1.83760	α _{-50/80°C} (10 ⁻⁷ /K)		71	20/30	73	500	0.991	0.990							
n _h	404.66	1.85020	α _{100/300°C} (10 ⁻⁷ /K)		89	30/40	74	480	0.989	0.986							
n _i	365.01	1.87341	λ (W/(m·K))		1.27	40/50	74	460	0.986	0.980							
Constants of Dispersion Formula						50/60	75	440	0.981	0.971							
						60/70	76	420	0.972	0.942							
						70/80	76	400	0.951	0.900							
						80/90	78	390	0.925	0.851							
						90/100	79	380	0.876	0.759							
A ₀	3.15298545E+00		Mechanical Properties		HK (10 ⁷ Pa)		617	100/110	80	370	0.755	0.559					
A ₁	-1.28281407E-02				F _A		133	110/120	81	360	0.474	0.216					
A ₂	3.50678569E-02				E (GPa)		119.0	120/130	82	350							
A ₃	1.45594413E-03				G (GPa)		46.0	130/140	83	340							
A ₄	-4.44157215E-05				μ		0.295	140/150	84	330							
A ₅	1.00656359E-05		σ _b (MPa)		82	150/160	86	320									
Density			Solarization			B (10 ⁻¹² /Pa)		1.83			310						
										300							
ρ (g/cm ³)	3.56	Δλ (%)		-0.4									290				
															280		
Range of Temperature (°C)	Temperature Coefficients of Refractive Index																
	dn/dt relative (×10 ⁻⁶ / °C)																
	t	s	C	C'	He-Ne	d	e	F	F'	g							
	-60~-40	3.6	4.0	4.4	4.5	4.6	4.9	5.3	6.2	6.3	7.4						
	-40~-20	3.7	4.0	4.4	4.5	4.6	4.9	5.3	6.3	6.3	7.4						
	-20~0	3.8	4.1	4.5	4.6	4.7	5.0	5.4	6.3	6.4	7.5						
	0~20	3.8	4.1	4.6	4.6	4.7	5.0	5.4	6.4	6.4	7.5						
	20~40	3.8	4.2	4.7	4.7	4.8	5.0	5.5	6.5	6.5	7.7						
	40~60	3.8	4.2	4.8	4.8	4.8	5.2	5.7	6.7	6.7	7.9						
	60~80	3.8	4.3	4.8	4.9	5.0	5.4	5.9	6.9	7.1	8.3						
80~100	3.8	4.4	4.9	5.0	5.1	5.6	6.1	7.2	7.3	8.5							
100~120	3.8	4.5	5.0	5.1	5.3	5.8	6.3	7.4	7.5	8.7							
120~140	3.9	4.6	5.1	5.3	5.4	5.9	6.4	7.6	7.6	8.8							
140~160	3.9	4.7	5.3	5.4	5.5	6.1	6.6	7.7	7.7	9.0							
												Coloration Code					
												λ ₈₀ (λ ₇₀)/λ ₅		430/355			
												Coloration of Internal Transmittance					
												λτ ₈₀ /λτ ₅		383/354			
												Constants of dn/dt					
												D ₀		D ₁		D ₂	
												2.40E-06		1.05E-08		-1.57E-11	
												E ₀		E ₁		λ _{TK}	
												8.61E-07		8.63E-10		2.53E-01	