

H-ZLaF54A	816466	n _d = 1.81600	v _d = 46.55	n _F − n _C = 0.017528
		n _e = 1.82017	v _e = 46.33	n _{F'} − n _{C'} = 0.017704

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance						
	λ (nm)	n _λ					λ (nm)	τ5mm	τ10mm				
n ₂₃₂₅	2325.42						P _{d,C}	0.3001	RC (S)	1	2400	0.867	0.751
n ₁₉₇₀	1970.09						P _{e,d}	0.2379	RA (S)	1	2200	0.965	0.931
n ₁₅₃₀	1529.58						P _{g,F}	0.5574	D _W	1	2000	0.986	0.972
n ₁₁₂₉	1128.64	1.79487					P' _{d,c'}	0.2497	D _A	3	1800	0.996	0.992
n ₁₀₆₄	1064.00	1.79619	P' _{e,d}	0.2355	R _{OH} (S)	1	1600	0.999	0.998				
n _t	1013.98	1.79731	P' _{g,F'}	0.4942	RP (S)	1	1400	0.999	0.998				
n _s	852.11	1.80175	Deviation of Relative Partial Dispersions		Expansion Coefficient α (×10 ⁻⁷ /K)		1200	0.999	0.998				
n _{A'}	768.19	1.80488					1060	0.999	0.998				
n _r	706.52	1.80779					1000	0.999	0.998				
n _C	656.27	1.81074					950	0.999	0.998				
n _{C'}	643.85	1.81158					900	0.999	0.998				
n _{He-Ne}	632.80	1.81235					850	0.999	0.998				
n _D	589.29	1.81585	ΔP _{F,e}	-0.0024	-50/-40	57	800	0.999	0.998				
n _d	587.56	1.81600	ΔP _{g,F}	-0.0089	-40/-30	58	750	0.999	0.998				
n _e	546.07	1.82017	ΔP _{C,t}	0.0005	-30/-20	60	700	0.999	0.998				
n _F	486.13	1.82827	ΔP _{C,s}	0.0008	-20/-10	61	650	0.999	0.998				
n _{F'}	479.99	1.82929	Thermal Properties		-10/0	62	600	0.999	0.998				
n _g	435.84	1.83804			T _g (°C)	718	0/10	63	550	0.999	0.998		
n _h	404.66	1.84625			T _s (°C)	744	10/20	63	500	0.998	0.997		
n _i	365.01	1.86049			T ₁₀ ^{14.5} (°C)	646	20/30	63	480	0.997	0.995		
					T ₁₀ ¹³ (°C)	666	30/40	63	460	0.996	0.992		
					α _{-50/80°C} (10 ⁻⁷ /K)	61	40/50	64					
			α _{100/300°C} (10 ⁻⁷ /K)	76									
							</						

Constants of Dispersion Formula	
A ₀	3.21683817E+00
A ₁	-1.36724876E-02
A ₂	2.76347913E-02
A ₃	7.16568289E-04
A ₄	-1.97668563E-05
A ₅	2.19878744E-06

Density		Solarization	
ρ (g/cm ³)	4.99	Δλ (%)	-0.3

Mechanical Properties			
HK (10 ⁷ Pa)	693		
F _A	71		
E (GPa)	123.0		
G (GPa)	47.4		
μ	0.298		
σ _b (MPa)			
B (10 ⁻¹² /Pa)	1.12		

80/90	69
90/100	69
100/110	69
110/120	70
120/130	70
130/140	73
140/150	74
150/160	75

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	2.1	2.4	2.8	3.0	3.1	3.3	3.6	3.9	4.0	4.5
-40 ~ -20	2.2	2.4	2.8	3.1	3.2	3.5	3.8	4.0	4.1	4.7
-20 ~ 0	2.2	2.4	2.9	3.1	3.3	3.6	3.9	4.1	4.2	5.0
0 ~ 20	2.3	2.5	3.0	3.2	3.4	3.8	4.1	4.2	4.4	5.1
20 ~ 40	2.3	2.6	3.1	3.3	3.5	4.0	4.2	4.4	4.6	5.3
40 ~ 60	2.4	2.8	3.3	3.5	3.7	4.2	4.4	4.6	4.7	5.6
60 ~ 80	2.4	2.9	3.4	3.6	3.9	4.4	4.6	4.8	4.9	5.8
80 ~ 100	2.4	3.0	3.6	3.8	4.1	4.6	4.7	5.0	5.1	6.0
100 ~ 120	2.6	3.2	3.8	4.0	4.2	4.8	4.9	5.2	5.3	6.3
120 ~ 140	2.8	3.3	4.1	4.2	4.4	5.0	5.1	5.4	5.5	6.6
140 ~ 160	2.9	3.4	4.3	4.4	4.5	5.1	5.3	5.5	5.7	6.8

Coloration Code	
λ ₈₀ (λ ₇₀)/λ ₅	385/325
Coloration of Internal Transmittance	
λτ ₈₀ /λτ ₅	355/322

Constants of dn/dt		
D ₀	D ₁	D ₂
1.25E-07	1.24E-08	-1.76E-11
E ₀	E ₁	λ _{TK}
9.91E-07	1.10E-09	6.42E-09