

H-K12	534555	$n_d = 1.53359$	$v_d = 55.47$	$n_F - n_C = 0.009619$
		$n_e = 1.53588$	$v_e = 55.17$	$n_F - n_C = 0.009713$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.50814
n_{1970}	1970.09	1.51249
n_{1530}	1529.58	1.51727
n_{1129}	1128.64	1.52160
n_{1064}	1064.00	1.52239
n_t	1013.98	1.52305
n_s	852.11	1.52562
$n_{A'}$	768.19	1.52740
n_f	706.52	1.52904
n_C	656.27	1.53068
$n_{C'}$	643.85	1.53114
n_{He-Ne}	632.80	1.53157
n_D	589.29	1.53350
n_d	587.56	1.53359
n_e	546.07	1.53588
n_F	486.13	1.54030
$n_{F'}$	479.99	1.54085
n_g	435.84	1.54557
n_h	404.66	1.54996
n_i	365.01	1.55752

Relative Partial Dispersion	
$P_{d,C}$	0.3025
$P_{e,d}$	0.2381
$P_{g,F}$	0.5479
$P'_{d,c'}$	0.2522
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4859

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D _w	1
D _A	1
R _{OH} (S)	1
RP (S)	2
CR	

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.874	0.764
2200	0.898	0.806
2000	0.955	0.909
1800	0.977	0.953
1600	0.994	0.988
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	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.999	0.998
460	0.999	0.998
440	0.999	0.998
420	0.998	0.996
400	0.997	0.994
390	0.994	0.989
380	0.990	0.980
370	0.980	0.960
360	0.956	0.914
350	0.905	0.820
340	0.797	0.635
330	0.574	0.329
320	0.260	0.067
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0036
$\Delta P_{C,t}$	-0.0157
$\Delta P_{C,s}$	-0.0075

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	83
-40/-30	86
-30/-20	88
-20/-10	89
-10/0	91
0/10	92
10/20	93
20/30	94
30/40	94
40/50	94
50/60	95
60/70	96
70/80	97
80/90	99
90/100	100
100/110	102
110/120	104
120/130	106
130/140	108
140/150	109
150/160	112

Thermal Properties	
T _g ($^{\circ}C$)	495
T _s ($^{\circ}C$)	549
T ₁₀ ^{14.5} ($^{\circ}C$)	450
T ₁₀ ¹³ ($^{\circ}C$)	488
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	98
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	113
λ (W/(m K))	1.01

Constants of Dispersion Formula	
A ₀	2.31544050E+00
A ₁	-7.99936583E-03
A ₂	1.23689469E-02
A ₃	5.07443369E-04
A ₄	-4.38673524E-05
A ₅	2.71548041E-06

Mechanical Properties	
HK (10 ⁷ Pa)	485
F _A	98
E (GPa)	69.7
G (GPa)	27.4
μ	0.271
σ_b (MPa)	79
B (10 ⁻¹² /Pa)	2.75

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
2.73	-0.5

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	0.1	0.4	1.0	1.1	1.2	1.4	1.7	2.0	2.1	2.3
-40 ~ -20	0.4	0.8	1.3	1.4	1.5	1.7	1.8	2.1	2.2	2.4
-20 ~ 0	0.6	1.0	1.3	1.4	1.5	1.9	2.0	2.3	2.3	2.4
0 ~ 20	0.6	1.2	1.4	1.5	1.6	2.0	2.2	2.5	2.5	2.7
20 ~ 40	0.7	1.3	1.6	1.6	1.7	2.0	2.4	2.6	2.7	3.0
40 ~ 60	0.7	1.5	1.7	1.8	1.8	2.0	2.5	2.8	2.9	3.2
60 ~ 80	0.7	1.5	1.7	1.8	1.9	2.1	2.6	2.9	3.0	3.3
80 ~ 100	0.8	1.6	1.8	1.9	2.0	2.3	2.7	3.0	3.1	3.5
100 ~ 120	0.8	1.6	1.8	1.9	2.0	2.3	2.9	3.2	3.2	3.7
120 ~ 140	0.9	1.8	2.1	2.2	2.2	2.4	3.0	3.4	3.4	3.9
140 ~ 160	0.9	1.9	2.2	2.3	2.4	2.6	3.1	3.5	3.6	4.1

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	355/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	347/318

Constants of dn/dt		
D ₀	D ₁	D ₂
-2.45E-06	1.63E-08	-3.64E-11
E ₀	E ₁	λ_{TK}
1.14E-06	1.20E-09	1.33E-08