

H-F1	603380	$n_d = 1.60342$	$v_d = 38.01$	$n_F - n_C = 0.015875$
		$n_e = 1.60718$	$v_e = 37.74$	$n_{F'} - n_{C'} = 0.016088$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.56760
n_{1970}	1970.09	1.57308
n_{1530}	1529.58	1.57923
n_{1129}	1128.64	1.58506
n_{1064}	1064.00	1.58618
n_t	1013.98	1.58713
n_s	852.11	1.59091
$n_{A'}$	768.19	1.59361
n_f	706.52	1.59615
n_C	656.27	1.59874
$n_{C'}$	643.85	1.59948
n_{He-Ne}	632.80	1.60017
n_D	589.29	1.60328
n_d	587.56	1.60342
n_e	546.07	1.60718
n_F	486.13	1.61462
$n_{F'}$	479.99	1.61557
n_g	435.84	1.62386
n_h	404.66	1.63190
n_i	365.01	1.64667

Relative Partial Dispersion	
$P_{d,C}$	0.2948
$P_{e,d}$	0.2369
$P_{g,F}$	0.5820
$P'_{d,c'}$	0.2449
$P'_{e,d}$	0.2337
$P'_{g,f'}$	0.5153

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D _w	1
D _A	1
R _{OH} (S)	1
RP (S)	1
CR	3

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.938	0.867
2200	0.950	0.892
2000	0.987	0.961
1800	0.996	0.982
1600	0.999	0.998
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	0.998	0.996
460	0.997	0.993
440	0.995	0.990
420	0.991	0.981
400	0.985	0.965
390	0.975	0.944
380	0.940	0.867
370	0.841	0.683
360	0.540	0.279
350	0.112	0.018
340		
330		
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0006
$\Delta P_{g,F}$	0.0016
$\Delta P_{C,t}$	0.0070
$\Delta P_{C,s}$	0.0016

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	73
-40/-30	74
-30/-20	74
-20/-10	74
-10/0	76
0/10	78
10/20	78
20/30	80
30/40	81
40/50	82
50/60	83
60/70	83
70/80	86
80/90	87
90/100	88
100/110	89
110/120	90
120/130	93
130/140	93
140/150	95
150/160	97

Thermal Properties	
T _g ($^{\circ}C$)	591
T _s ($^{\circ}C$)	638
T ₁₀ ^{14.5} ($^{\circ}C$)	517
T ₁₀ ¹³ ($^{\circ}C$)	565
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	79
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	98
λ (W/(m K))	1.19

Mechanical Properties	
HK ($10^7 Pa$)	491
F _A	141
E (GPa)	76.6
G (GPa)	31.3
μ	0.223
σ_b (MPa)	
B ($10^{-12}/Pa$)	2.74

Constants of Dispersion Formula	
A ₀	2.50960367E+00
A ₁	-1.03328069E-02
A ₂	1.94468683E-02
A ₃	1.23207636E-03
A ₄	-9.94382918E-05
A ₅	9.44281258E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
2.63	-0.4

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	1.8	2.1	2.3	2.4	2.4	2.6	2.8	3.4	3.4	4.3
-40 ~ -20	1.8	2.1	2.3	2.4	2.4	2.6	2.9	3.5	3.5	4.3
-20 ~ 0	1.7	2.2	2.3	2.4	2.4	2.7	2.9	3.5	3.5	4.5
0 ~ 20	1.7	2.2	2.4	2.4	2.5	2.7	2.9	3.6	3.7	4.5
20 ~ 40	1.8	2.2	2.4	2.4	2.6	2.7	2.9	3.6	3.7	4.5
40 ~ 60	1.8	2.2	2.6	2.6	2.7	2.8	3.1	3.7	3.9	4.7
60 ~ 80	1.8	2.3	2.6	2.6	2.7	2.8	3.1	3.8	3.9	4.9
80 ~ 100	1.9	2.4	2.7	2.7	2.8	3.0	3.1	3.9	4.0	5.1
100 ~ 120	1.9	2.4	2.7	2.7	2.8	3.1	3.3	4.1	4.2	5.2
120 ~ 140	2.0	2.5	2.8	2.8	2.8	3.2	3.4	4.2	4.3	5.3
140 ~ 160	2.0	2.5	2.8	2.9	2.9	3.4	3.6	4.4	4.5	5.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/355
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	375/354

Constants of dn/dt		
D ₀	D ₁	D ₂
1.43E-07	1.19E-08	-2.03E-11
E ₀	E ₁	λ_{TK}
5.89E-07	5.54E-10	2.98E-01