

$$n_{10.6} = 2.4940$$

$$\nu_{10.6} = 95.77$$

$$n_g - n_{12.5} = 0.0156$$

Refractive Indices

λ (μm)	n_λ
2.0	2.5293
3.0	2.5175
4.0	2.5127
5.0	2.5097
6.0	2.5072
7.0	2.5047
8.0	2.5021
9.0	2.4993
10.0	2.4961
11.0	2.4926
12.0	2.4886
12.5	2.4865
13.0	2.4843
14.0	2.4794

Constants of Dispersion Formula

A	2.5100146E+00
B	7.7495165E-02
C	4.9371281E-03
D	-1.3389514E-04
E	-1.3508347E-07
F	5.7156655E-11

Other Properties

ρ (g/cm^3)	4.42
ϵr	

Chemical Properties (grade)

RC(S)	1
RA(S)	1
D _W	1
D _A	1
R _{OH} (S)	1
RP(S)	1

Thermal Properties

T _g (°C)	369
T _s (°C)	409
$\alpha_{-60/120^\circ\text{C}}$ ($10^{-7}/\text{K}$)	123
$\alpha_{20/120^\circ\text{C}}$ ($10^{-7}/\text{K}$)	123
C _p ($\text{J}/\text{g}\cdot\text{K}$)	

Mechanical Properties

HK (10^7Pa)	150
E (GPa)	22.0
G (GPa)	8.3
μ	0.33

Temperature Coefficients of Refractive Index (-40 ~ 80°C) ($\times 10^{-6}/^\circ\text{C}$)

λ (μm)	$\text{dn}_{\text{rel}}/\text{dt}$
3	67
5	65
8	64
10	62
12	62

Expansion Coefficient α ($\times 10^{-7}/\text{K}$)

°C	α
-50/-40	118
-40/-30	120
-30/-20	121
-20/-10	122
-10/0	122
0/10	122
10/20	123
20/30	123
30/40	123
40/50	123
50/60	123
60/70	123
70/80	123
80/90	124
90/100	124
100/110	124
110/120	124
120/130	123
130/140	123
140/150	123
150/160	124

Internal Transmittance

λ (μm)	τ 2mm
17.0	0.814
16.0	0.722
15.0	0.917
14.0	0.943
13.0	0.887
12.5	0.883
12.0	0.933
11.0	0.991
10.0	0.999
9.5	0.999
9.0	0.999
8.5	0.999
8.0	0.999
7.5	0.999
7.0	0.999
6.5	0.999
6.0	0.999
5.5	0.999
5.0	0.995
4.5	0.993
4.0	0.998
3.5	0.998
3.0	0.999
2.5	0.997
2.0	0.988
1.5	0.993
1.0	0.989

Constants of dn/dt

D ₀	5.82025E-05
D ₁	2.04218E-08
D ₂	-7.67374E-11
E ₀	1.65764E-04
E ₁	9.67536E-07
λ_{TK}	-4.58177E+00

Transmittance τ (2mm)

