

F4

620364

$n_d = 1.62005$

$v_d = 36.35$

$n_F - n_C = 0.017060$

$n_e = 1.62408$

$v_e = 36.09$

$n_{F'} - n_{C'} = 0.017291$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance								
	λ (nm)	n_λ					λ (nm)	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$						
n_{2325}	2325.42	1.58511	$P_{d,C}$	0.2937	RC (S)	1	2400	0.889	0.790						
n_{1970}	1970.09	1.58980	$P_{e,d}$	0.2362	RA (S)	3	2200	0.918	0.843						
n_{1530}	1529.58	1.59522	$P_{g,F}$	0.5832	D_W	1	2000	0.964	0.930						
n_{1129}	1128.64	1.60075	$P'_{d,c'}$	0.2445	D_A	1	1800	0.986	0.972						
n_{1064}	1064.00	1.60186	$P'_{e,d}$	0.2329	R_{OH} (S)	1	1600	0.999	0.998						
n_t	1013.98	1.60282	$P'_{g,F'}$	0.5162	RP (S)	1	1400	0.999	0.998						
n_s	852.11	1.60672	Deviation of Relative Partial Dispersions		Expansion Coefficient α ($\times 10^{-7}/K$)		1200	0.999	0.998						
$n_{A'}$	768.19	1.60957					$\Delta P_{F,e}$	0.0000	$^\circ C$	α	1060	0.999	0.998		
n_r	706.52	1.61228					$\Delta P_{g,F}$	0.0000			1000	0.999	0.998		
n_C	656.27	1.61504					$\Delta P_{C,t}$	0.0000	-50/-40	78	950	0.999	0.998		
$n_{C'}$	643.85	1.61582					$\Delta P_{C,s}$	0.0001	-40/-30	81	900	0.999	0.998		
n_{He-Ne}	632.80	1.61656	Thermal Properties		-30/-20	83	850	0.999	0.998						
n_D	589.29	1.61990	T_g ($^\circ C$)	414	-20/-10	85	800	0.999	0.998						
n_d	587.56	1.62005	T_s ($^\circ C$)	471	-10/0	86	750	0.999	0.998						
n_e	546.07	1.62408	$T_{10}^{14.5}$ ($^\circ C$)	355	0/10	88	700	0.999	0.998						
n_F	486.13	1.63210	T_{10}^{13} ($^\circ C$)	398	10/20	89	650	0.999	0.998						
$n_{F'}$	479.99	1.63312	$\alpha_{50/80^\circ C}$ ($10^{-7}/K$)	88	20/30	90	600	0.999	0.998						
n_g	435.84	1.64205	$\alpha_{100/300^\circ C}$ ($10^{-7}/K$)	110	30/40	91	550	0.999	0.998						
n_h	404.66	1.65066	λ (W/(m·K))	0.73	40/50	92	500	0.999	0.998						
n_i	365.01	1.66625	Mechanical Properties		50/60	93	480	0.999	0.998						
Constants of Dispersion Formula					HK (10^7 Pa)	418	60/70	94	460	0.999	0.998				
A_0	2.55510802E+00				F_A	172	70/80	95	440	0.997	0.994				
A_1	-8.64431010E-03				E (GPa)	58.4	80/90	96	420	0.995	0.990				
A_2	2.26592448E-02				G (GPa)	23.3	90/100	98	400	0.993	0.986				
A_3	8.22256872E-04		μ	0.251	100/110	99	390	0.991	0.978						
A_4	-1.60646686E-05		σ_b (MPa)	60.1	110/120	100	380	0.987	0.968						
A_5	4.04183096E-06		B (10^{-12} /Pa)	2.48	120/130	101	370	0.982	0.957						
Density			Solarization		130/140	103	360	0.971	0.932						
ρ (g/cm ³)	3.57				$\Delta\lambda$ (%)	0.5	140/150	104	350	0.940	0.874				
Range of Temperature ($^\circ C$)					Temperature Coefficients of Refractive Index							340	0.855	0.725	
					dn/dt relative ($\times 10^{-6} / ^\circ C$)							330	0.620	0.383	
					t	s	C	C'	He-Ne	d	e	F	F'	g	320
-60 ~ -40	1.2	1.7	2.1	2.1	2.1	2.1	2.3	2.5	3.2	3.3	4.3	310			
-40 ~ -20	1.2	1.7	2.1	2.1	2.1	2.1	2.3	2.6	3.3	3.4	4.5	300			
-20 ~ 0	1.3	1.7	2.1	2.1	2.1	2.1	2.4	2.7	3.5	3.6	4.5	290			
0 ~ 20	1.3	1.8	2.1	2.1	2.2	2.2	2.5	2.8	3.6	3.7	4.6	280			
20 ~ 40	1.4	1.9	2.2	2.2	2.2	2.2	2.5	3.0	3.7	3.8	4.9	Coloration Code			
40 ~ 60	1.4	1.9	2.3	2.4	2.4	2.4	2.7	3.0	3.9	4.0	5.0	$\lambda_{80}(\lambda_{70})/\lambda_5$ 350/320			
60 ~ 80	1.5	2.0	2.5	2.6	2.6	2.6	2.9	3.4	4.1	4.2	5.2	Coloration of Internal Transmittance			
80 ~ 100	1.7	2.1	2.6	2.6	2.7	2.7	2.9	3.5	4.2	4.3	5.3	$\lambda\tau_{80}/\lambda\tau_5$ 342/320			
100 ~ 120	1.8	2.2	2.7	2.7	2.8	2.8	3.2	3.7	4.3	4.4	5.5	Constants of dn/dt			
120 ~ 140	2.0	2.3	2.8	2.9	3.0	3.0	3.4	3.8	4.5	4.6	5.7	D_0	D_1	D_2	
140 ~ 160	2.1	2.4	3.0	3.1	3.2	3.2	3.5	4.1	4.7	4.8	5.9	-1.07E-06	1.43E-08	-1.76E-11	
												E_0	E_1	λ_{TK}	
												8.75E-07	5.84E-10	2.59E-01	