

H-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		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.58141
n_{1970}	1970.09	1.58736
n_{1530}	1529.58	1.59402
n_{1129}	1128.64	1.60033
n_t	1013.98	1.60256
n_s	852.11	1.60663
$n_{A'}$	768.19	1.60953
n_r	706.52	1.61226
n_C	656.27	1.61504
$n_{C'}$	643.85	1.61582
$n_{\text{He-Ne}}$	632.80	1.61656
n_D	589.29	1.61990
n_d	587.56	1.62005
n_e	546.07	1.62408
n_F	486.13	1.63210
$n_{F'}$	479.99	1.63312
n_g	435.84	1.64216
n_h	404.66	1.65099
n_i	365.01	1.66737

Constants of Dispersion Formula	
A_0	2.55787917E+00
A_1	-1.12866980E-02
A_2	2.15682378E-02
A_3	1.06093973E-03
A_4	-5.80337025E-05
A_5	8.39258305E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2937	$P'_{d,C'}$	0.2445
$P_{e,d}$	0.2362	$P'_{e,d}$	0.2329
$P_{g,F}$	0.5897	$P'_{g,F'}$	0.5225

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 ⁻⁶ / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	2.5	3.2	3.2	3.4	3.7	4.4	5.1
-20 ~ 0	2.5	3.2	3.3	3.5	3.8	4.5	5.3
0 ~ 20	2.5	3.3	3.3	3.6	3.9	4.6	5.5
20 ~ 40	2.6	3.3	3.4	3.6	3.9	4.7	5.6
40 ~ 60	2.6	3.4	3.5	3.7	4.1	4.9	5.8
60 ~ 80	2.8	3.6	3.7	3.9	4.3	5.2	6.1

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)	579
T _s (°C)	634
T ₁₀ ^{14.5} (°C)	524
T ₁₀ ¹³ (°C)	563
$\alpha_{-50/80^\circ\text{C}}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	90

Mechanical Properties	
HK(10 ⁷ Pa)	603
F _A	118
E(10 ⁷ Pa)	8159
G(10 ⁷ Pa)	3317
μ	0.230
B(nm/cm/10 ⁵ Pa)	2.890

Density	
ρ (g/cm ³)	2.66

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0065
$\Delta P_{C,t}$	0.0153
$\Delta P_{C,s}$	0.0053

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.934	0.872
2200	0.945	0.893
2000	0.994	0.989
1800	0.999	0.998
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
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	0.997	0.994
440	0.995	0.990
420	0.992	0.981
400	0.982	0.961
390	0.963	0.925
380	0.910	0.828
370	0.749	0.568
360	0.363	0.140
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/360

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	377/356