

H-TF7 638424	$n_d = 1.63775$	$v_d = 42.41$	$n_F - n_C = 0.015038$
	$n_e = 1.64132$	$v_e = 42.20$	$n_{F'} - n_{C'} = 0.015198$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	
n_t	1013.98	
n_s	852.11	
$n_{A'}$	768.19	
n_r	706.52	1.63069
n_C	656.27	1.63324
$n_{C'}$	643.85	1.63395
$n_{\text{He-Ne}}$	632.80	1.63462
n_D	589.29	1.63762
n_d	587.56	1.63775
n_e	546.07	1.64132
n_F	486.13	1.64828
$n_{F'}$	479.99	1.64915
n_g	435.84	1.65670
n_h	404.66	1.66385
n_i	365.01	1.67636

Constants of Dispersion Formula	
A_0	2.62115073E+00
A_1	-1.32041803E-02
A_2	2.15377322E-02
A_3	2.97328360E-04
A_4	3.19312087E-05
A_5	-3.49692462E-07

Relative Partial Dispersions			
$P_{d,C}$	0.2999	$P'_{d,c'}$	0.2500
$P_{e,d}$	0.2374	$P'_{e,d}$	0.2349
$P_{g,F}$	0.5598	$P'_{g,F'}$	0.4967

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6} / ^\circ\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20							
-20 ~ 0							
0 ~ 20							
20 ~ 40							
40 ~ 60							
60 ~ 80							

Chemical Properties (grade)	
RC(S)	1
RA(S)	2
D _w	3
D _A	3
R _{OH} (S)	
RP(S)	

Thermal Properties	
T _g (°C)	567
T _s (°C)	616
T ₁₀ ^{14.5} (°C)	531
T ₁₀ ¹³ (°C)	560
$\alpha_{.50/80^\circ\text{C}}$ ($10^{-7}/\text{K}$)	
$\alpha_{100/300^\circ\text{C}}$ ($10^{-7}/\text{K}$)	71

Mechanical Properties	
HK(10^7Pa)	548
F _A	127
E(10^7Pa)	
G(10^7Pa)	
μ	
B(nm/cm/ 10^5Pa)	

Density	
ρ (g/cm ³)	2.92

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0040
$\Delta P_{g,F}$	-0.0133
$\Delta P_{C,t}$	
$\Delta P_{C,s}$	

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.827	0.684
2200	0.925	0.856
2000	0.972	0.945
1800	0.982	0.964
1600	0.996	0.992
1400	0.996	0.992
1200	0.996	0.992
1060	0.996	0.992
1000	0.996	0.992
900	0.996	0.992
850	0.996	0.992
800	0.996	0.992
750	0.996	0.992
700	0.996	0.992
650	0.996	0.992
600	0.996	0.992
550	0.996	0.992
500	0.996	0.992
480	0.993	0.986
460	0.990	0.980
440	0.987	0.974
420	0.983	0.966
400	0.977	0.955
390	0.969	0.939
380	0.954	0.910
370	0.927	0.859
360	0.878	0.771
350	0.779	0.607
340	0.591	0.349
330	0.273	0.075
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/320

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