H-QF50 581409

n_d = 1.58144	υ_d = 40.89	$n_F - n_C$ = 0.014220
n_e = 1.58481	υ_e = 40.61	$n_{F'} - n_{C'}$ = 0.014400

Refractive Indices		
	λ(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	1.57488
n_C	656.27	1.57723
$n_{C'}$	643.85	1.57789
n_{He-Ne}	632.80	1.57852
n_D	589.29	1.58132
n_d	587.56	1.58144
n_e	546.07	1.58481
n_F	486.13	1.59145
$n_{F'}$	479.99	1.59229
n_g	435.84	1.59962
n_h	404.66	1.60671
n_i	365.01	1.61953

Constants of Dispersion Formula	
A_0	2.44465065E+00
A_1	-9.09883110E-03
A_2	1.89721812E-02
A_3	5.44508963E-04
A_4	-1.43583595E-05
A_5	3.91870338E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2961	$P'_{d,c'}$	0.2465
$P_{e,d}$	0.2370	$P'_{e,d}$	0.2340
$P_{g,F}$	0.5745	$P'_{g,F'}$	0.5090

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
D_W	1
D_A	1
R_{OH}(S)	1
RP(S)	1

Thermal Properties	
Tg(℃)	564
Ts(℃)	638
$T_{10}^{14.5}$(℃)	515
T_{10}^{13}(℃)	559
$\alpha_{-50/80℃}$(10^{-7}/K)	82
$\alpha_{100/300℃}$(10^{-7}/K)	98

Mechanical Properties	
HK(10^7Pa)	499
F_A	128
E(10^7Pa)	8171
G(10^7Pa)	3287
μ	0.243
B(nm/cm/10^5Pa)	2.780

Density	
ρ (g/cm^3)	2.64

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0007
$\triangle P_{g,F}$	-0.0011
$\triangle P_{C,t}$	
$\triangle P_{C,s}$	

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20		2.5	2.5	2.7	2.9	3.5	4.1
-20 ~ 0		2.7	2.8	2.9	3.2	3.8	4.4
0 ~ 20		2.9	3.0	3.2	3.4	4.0	4.7
20 ~ 40		3.1	3.1	3.3	3.6	4.2	4.9
40 ~ 60		3.2	3.2	3.4	3.7	4.3	5.0
60 ~ 80		3.2	3.2	3.4	3.7	4.3	5.1

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.933	0.810
2200	0.946	0.859
2000	0.980	0.960
1800	0.990	0.980
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	0.998	0.996
460	0.997	0.994
440	0.996	0.992
420	0.994	0.989
400	0.992	0.981
390	0.986	0.966
380	0.966	0.926
370	0.903	0.808
360	0.701	0.488
350	0.268	0.075
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/350

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