

<b>H-K10</b> <b>518590</b>	$n_d = 1.51818$	$v_d = 58.95$	$n_F - n_C = 0.008790$
	$n_e = 1.52027$	$v_e = 58.69$	$n_{F'} - n_{C'} = 0.008865$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.49188
$n_{1970}$	1970.09	1.49678
$n_{1530}$	1529.58	1.50212
$n_{1129}$	1128.64	1.50673
$n_t$	1013.98	1.50819
$n_s$	852.11	1.51072
$n_{A'}$	768.19	1.51243
$n_r$	706.52	1.51396
$n_C$	656.27	1.51549
$n_{C'}$	643.85	1.51592
$n_{\text{He-Ne}}$	632.80	1.51632
$n_D$	589.29	1.51810
$n_d$	587.56	1.51818
$n_e$	546.07	1.52027
$n_F$	486.13	1.52428
$n_{F'}$	479.99	1.52479
$n_g$	435.84	1.52909
$n_h$	404.66	1.53307
$n_i$	365.01	1.53987

Constants of Dispersion Formula	
$A_0$	2.27259173E+00
$A_1$	-9.06522105E-03
$A_2$	1.14548348E-02
$A_3$	2.86758258E-04
$A_4$	-1.05607530E-05
$A_5$	6.78591630E-07

Relative Partial Dispersions			
$P_{d,C}$	0.3060	$P'_{d,C'}$	0.2548
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2356
$P_{g,F}$	0.5472	$P'_{g,F'}$	0.4848

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	1.2	1.5	1.5	1.6	1.8	2.1	2.4
-20 ~ 0	1.1	1.5	1.5	1.6	1.8	2.1	2.4
0 ~ 20	1.1	1.5	1.5	1.6	1.8	2.1	2.5
20 ~ 40	1.1	1.5	1.5	1.6	1.7	2.1	2.5
40 ~ 60	1.1	1.5	1.5	1.6	1.8	2.1	2.5
60 ~ 80	1.1	1.5	1.6	1.7	1.9	2.2	2.6

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
$D_W$	1
$D_A$	1
$R_{OH}(S)$	2
RP(S)	1

Thermal Properties	
$T_g(^\circ\text{C})$	511
$T_s(^\circ\text{C})$	579
$T_{10}^{14.5}(^\circ\text{C})$	460
$T_{10}^{13}(^\circ\text{C})$	495
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	88
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	110

Mechanical Properties	
HK( $10^7\text{Pa}$ )	454
$F_A$	118
$E(10^7\text{Pa})$	7364
$G(10^7\text{Pa})$	2895
$\mu$	0.272
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.570

Density	
$\rho(\text{g}/\text{cm}^3)$	2.52

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0015
$\Delta P_{g,F}$	0.0015
$\Delta P_{C,t}$	0.0047
$\Delta P_{C,s}$	0.0008

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.862	0.745
2200	0.902	0.814
2000	0.960	0.920
1800	0.984	0.968
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	0.999	0.998
440	0.999	0.998
420	0.999	0.998
400	0.999	0.998
390	0.999	0.998
380	0.994	0.988
370	0.987	0.974
360	0.974	0.944
350	0.945	0.889
340	0.875	0.758
330	0.711	0.499
320	0.392	0.149
310	0.085	0.012
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	345/315

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