H-ZF88 946179	n_d =1.94595	υ_d = 17.94	n_F - n_C = 0.052723
	n_e =1.95827	υ_e = 17.80	$n_{F'}$- $n_{c'}$ = 0.053845

Refractive Indices		
	λ（nm）	
n_t	1014.0	1.89797
n_r	706.5	1.92333
n_c	656.3	1.93122
$n_{c'}$	643.8	1.93349
n_{He-Ne}	632.8	1.93563
n_D	589.3	1.94551
n_d	587.6	1.94595
n_e	546.1	1.95827
n_F	486.1	1.98394
$n_{F'}$	480.0	1.98733
n_g	435.8	2.01845
n_h	404.7	2.05143
n_i	365.0	

Constants of Dispersion Formula	
A_0	3.5755239
A_1	-3.0371269×10^{-2}
A_2	4.8236357×10^{-2}
A_3	1.3150654×10^{-2}
A_4	-1.6364187×10^{-3}
A_5	1.6227490×10^{-4}

Deviation of Relative Partial Dispersions ΔP from the“Normal Line”	
$\Delta P_{F,e}$	0.0072
$\Delta Pg_{,F}$	0.0396

Relative Partial Dispersions			
$P_{d,c}$	0.2794	$P'_{d,c'}$	0.2314
$P_{e,d}$	0.2337	$P'_{e,d}$	0.2288
$P_{g,F}$	0.6548	$P'_{g,F'}$	0.5782

Chemical Properties	
	Grade
RC(S)	1
RA(S)	1
D_W	1
D_A	1

Thermal Properties	
T_g （℃）	664
T_s （℃）	709
$T_{10}^{14.5}$ （℃）	620
T_{10}^{13} （℃）	652
$T_{10}^{7.6}$（℃）	769
$\alpha_{20/120℃}$(10^{-7}/K)	62
$\alpha_{100/300℃}$(10^{-7}/K)	73
λ (W/m • K)	

Mechanical Properties	
H_K (10^7Pa)	520
F_A	202
E (10^7Pa)	10881
G (10^7Pa)	4377
μ	0.243
B (10^{-12}/Pa)	3.27

Other Properties	
ρ (g/cm^3)	3.52

Internal Transmittance		
λ （nm）	τ 5 mm	τ 10 mm
2400	0.978	0.957
2200	0.987	0.974
2000	0.994	0.989
1800	0.996	0.993
1600	0.998	0.996
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.998	0.997
950	0.998	0.997
900	0.998	0.996
850	0.998	0.996
800	0.996	0.992
700	0.995	0.990
650	0.993	0.987
600	0.991	0.983
550	0.984	0.968
500	0.965	0.931
480	0.951	0.905
460	0.931	0.867
440	0.897	0.804
420	0.825	0.681
400	0.480	0.230
390	0.014	0.020
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
λ_{70}/λ_5	46/40

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt rel (10^{-6}/℃)					
	t	C′	d	e	F′	g
-40～-20	-0.2	1.6	1.5	1.8	4.3	7.4
-20～0	-0.2	1.4	2.6	3.8	5.7	9.3
0～20	0.0	0.4	1.7	2.4	5.4	8.6
20～40	0.4	3.0	3.0	4.3	7.0	11.6
40～60	0.2	2.7	3.5	4.3	7.6	11.2
60～80	1.2	2.8	4.2	5.5	8.6	12.1

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