D-ZPK1A	621638	n_d = 1.620870	υ_d = 63.83	$n_F - n_C$ = 0.009727
		n_e = 1.623190	υ_e = 63.51	$n_{F'} - n_{C'}$ = 0.009812

折射率 Refractive Index*

	λ（nm）	
$n_{2325.42}$	2325.42	1.594251
$n_{1970.09}$	1970.09	1.598961
$n_{1529.58}$	1529.58	1.604023
$n_{1060.0}$	1060.0	1.609424
n_t	1013.98	1.610057
n_s	852.11	1.612722
n_r	706.52	1.616236
n_C	656.27	1.617914
$n_{C'}$	643.85	1.618384
n_{He-Ne}	632.8	1.618824
n_D	589.29	1.620783
n_d	587.56	1.620870
n_e	546.07	1.623190
n_F	486.13	1.627641
$n_{F'}$	479.99	1.628196
n_g	435.83	1.632926
n_h	404.66	1.637303
n_i	365.01	1.644736
$n_{313.18}$	313.18	1.659735
$n_{302.15}$	302.15	1.664147

色散公式常数 Constants of Dispersion Formula

K_1	7.23324526E-01
L_1	2.88945758E-03
K_2	8.63552452E-01
L_2	1.42439384E-02
K_3	9.85077169E-01
L_3	1.16596916E+02

折射率温度系数常数 Constants of dn/dt

D_0	-1.27E-05
D_1	7.36E-09
D_2	-1.75E-13
E_0	4.58E-07
E_1	2.54E-10
λ_{TK}(μm)	0.183

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2740	$P'_{s,t}$	0.2716
$P_{C,s}$	0.5338	$P'_{C',s}$	0.5770
$P_{d,C}$	0.3039	$P'_{d,C'}$	0.2534
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5433	$P'_{g,F'}$	0.4821
$P_{i,h}$	0.7642	$P'_{i,h}$	0.7575

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0393	$\Delta P_{C,s}$	-0.0189
$\Delta P_{F,e}$	0.0027	$\Delta P_{g,F}$	0.0063

着色度 Color Code

λ_{80}/λ_5	360/-
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	546
T_s (℃)	580
$T_{10}^{14.5}$ (℃)	502
T_{10}^{13} (℃)	531
$T_{10}^{7.6}$(℃)	645
$\alpha_{-30/70℃}$(10^{-7}/K)	105
$\alpha_{100/300℃}$(10^{-7}/K)	128
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	1
D_A	4
CR	1
RC(S)	1
RA(S)	1

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.956	0.913
2200	0.970	0.942
2000	0.986	0.972
1800	0.992	0.985
1600	0.997	0.995
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.998	0.997
700	0.998	0.997
650	0.997	0.995
600	0.998	0.996
550	0.998	0.996
500	0.997	0.995
480	0.997	0.994
460	0.996	0.993
440	0.995	0.990
420	0.994	0.989
400	0.991	0.983
390	0.986	0.973
380	0.977	0.955
370	0.957	0.915
360	0.916	0.839
350	0.842	0.710
340	0.730	0.530
330	0.560	0.310
320	0.400	0.160
310	0.240	0.060
300	0.170	0.030
290		
280		

折射率温度系数 Temperature Coefficients of Refractive Index

温度范围（℃） Range of Temperature	dn/dt relative(10^{-6}/℃)					
	t	C′	d	e	F′	g
-60～-40	-4.1	-3.6	-3.8	-3.4	-3.3	-2.8
-40～-20	-4.3	-3.9	-3.9	-3.7	-3.5	-3.2
-20～0	-4.4	-4.1	-4.0	-3.9	-3.6	-3.4
0～20	-4.5	-4.3	-4.1	-4.0	-3.8	-3.5
20～40	-4.6	-4.4	-4.2	-4.1	-3.9	-3.5
40～60	-4.7	-4.4	-4.2	-4.0	-3.7	-3.5
60～80	-4.5	-4.2	-4.0	-4.0	-3.6	-3.3
80～100	-4.5	-4.2	-4.0	-4.0	-3.6	-3.3
100～120	-4.5	-4.1	-4.0	-4.0	-3.6	-3.3
120～140	-4.5	-4.1	-4.0	-4.0	-3.6	-3.3

机械性质 Mechanical Properties

H_K (10^7Pa)	399
F_A	340
E (10^7Pa)	7911
G (10^7Pa)	3073
μ	0.287
B (10^{-12}/Pa)	0.87

其他性质 Other Properties

ρ (g/cm^3)	3.69

备注 Remarks

*:退火速率 anneal rate 4℃/h

CDGM