D-ZK21	624582	n_d = 1.624460	υ_d = 58.21	$n_F - n_C$ = 0.010728
		n_e = 1.627018	υ_e = 58.00	$n_{F'} - n_{C'}$ = 0.010811

折射率 Refractive Index*

	λ（nm）	
$n_{2325.42}$	2325.42	1.589781
$n_{1970.09}$	1970.09	1.596773
$n_{1529.58}$	1529.58	1.604070
$n_{1060.0}$	1060.0	1.611275
n_t	1013.98	1.612063
n_s	852.11	1.615265
n_r	706.52	1.619295
n_C	656.27	1.621178
$n_{C'}$	643.85	1.621703
n_{He-Ne}	632.8	1.622192
n_D	589.29	1.624364
n_d	587.56	1.624460
n_e	546.07	1.627018
n_F	486.13	1.631906
$n_{F'}$	479.99	1.632514
n_g	435.83	1.637700
n_h	404.66	1.642501
n_i	365.01	1.650672
$n_{313.18}$	313.18	1.667253
$n_{302.15}$	302.15	1.672156

色散公式常数 Constants of Dispersion Formula

K_1	1.31514915E+00
L_1	1.03989436E+02
K_2	1.08358135E+00
L_2	1.43813024E-02
K_3	5.13108754E-01
L_3	-3.63923910E-04

折射率温度系数常数 Constants of dn/dt

D_0	4.26E-06
D_1	1.53E-08
D_2	-2.43E-11
E_0	4.86E-07
E_1	2.51E-10
λ_{TK}(μm)	0.199

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2985	$P'_{s,t}$	0.2962
$P_{C,s}$	0.5512	$P'_{C',s}$	0.5955
$P_{d,C}$	0.3059	$P'_{d,C'}$	0.2550
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2366
$P_{g,F}$	0.5401	$P'_{g,F'}$	0.4797
$P_{i,h}$	0.7617	$P'_{i,h}$	0.7558

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0291	$\Delta P_{C,s}$	0.0118
$\Delta P_{F,e}$	-0.0023	$\Delta P_{g,F}$	-0.0065

着色度 Color Code

λ_{80}/λ_5	340/260
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	541
T_s (℃)	572
$T_{10}^{14.5}$ (℃)	487
T_{10}^{13} (℃)	518
$T_{10}^{7.6}$(℃)	636
$\alpha_{-30/70℃}$(10^{-7}/K)	61
$\alpha_{100/300℃}$(10^{-7}/K)	84
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	2
D_A	3
CR	1
RC(S)	2
RA(S)	5

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.845	0.714
2200	0.956	0.913
2000	0.986	0.972
1800	0.994	0.989
1600	0.998	0.995
1400	0.997	0.994
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	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.998	0.997
550	0.998	0.997
500	0.998	0.997
480	0.998	0.997
460	0.998	0.997
440	0.998	0.996
420	0.997	0.995
400	0.997	0.994
390	0.996	0.993
380	0.995	0.990
370	0.991	0.983
360	0.985	0.970
350	0.971	0.943
340	0.949	0.900
330	0.912	0.831
320	0.855	0.731
310	0.774	0.599
300	0.673	0.453
290	0.562	0.316
280	0.457	0.209

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	3.8	4.2	4.4	4.5	4.8	5.1
-40～-20	3.7	4.1	4.3	4.4	4.8	5.0
-20～0	3.7	4.1	4.3	4.5	4.8	5.3
0～20	3.7	4.3	4.4	4.5	4.8	5.4
20～40	3.8	4.4	4.6	4.7	5.1	5.4
40～60	4.1	4.6	4.7	4.9	5.2	5.7
60～80	4.2	4.6	4.8	5.0	5.3	5.7
80～100	4.2	4.7	4.8	5.1	5.5	5.9
100～120	4.3	4.7	4.9	5.2	5.8	6.1
120～140	4.3	4.9	5.1	5.2	5.8	6.1

机械性质 Mechanical Properties

H_K (10^7Pa)	635
F_A	126
E (10^7Pa)	10618
G (10^7Pa)	4197
μ	0.265
B (10^{-12}/Pa)	2.26

其他性质 Other Properties

ρ (g/cm^3)	2.99

备注 Remarks

*:退火速率 anneal rate 4℃/h

CDGM