D-ZK3	589612	n_d = 1.589130	υ_d = 61.15	$n_F - n_C$ = 0.009634
		n_e = 1.591429	υ_e = 60.95	$n_{F'} - n_{C'}$ = 0.009704

折射率 Refractive Index*

	λ（nm）	
$n_{2325.42}$	2325.42	1.557347
$n_{1970.09}$	1970.09	1.563840
$n_{1529.58}$	1529.58	1.570578
$n_{1060.0}$	1060.0	1.577184
n_t	1013.98	1.577903
n_s	852.11	1.580818
n_r	706.52	1.584472
n_C	656.27	1.586173
$n_{C'}$	643.85	1.586646
n_{He-Ne}	632.8	1.587087
n_D	589.29	1.589044
n_d	587.56	1.589130
n_e	546.07	1.591429
n_F	486.13	1.595807
$n_{F'}$	479.99	1.596350
n_g	435.83	1.600973
n_h	404.66	1.605237
n_i	365.01	1.612466
$n_{313.18}$	313.18	1.627053
$n_{302.15}$	302.15	1.631354

色散公式常数 Constants of Dispersion Formula

K_1	1.33936811E+00
L_1	7.60612309E-03
K_2	1.48690268E-01
L_2	2.38444644E-02
K_3	1.00954033E+00
L_3	8.90419787E+01

折射率温度系数常数 Constants of dn/dt

D_0	1.68E-06
D_1	9.68E-09
D_2	-2.00E-11
E_0	5.34E-07
E_1	1.41E-09
λ_{TK}(μm)	0.172

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.3026	$P'_{s,t}$	0.3004
$P_{C,s}$	0.5558	$P'_{C',s}$	0.6006
$P_{d,C}$	0.3069	$P'_{d,C'}$	0.2560
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2369
$P_{g,F}$	0.5362	$P'_{g,F'}$	0.4764
$P_{i,h}$	0.7504	$P'_{i,h}$	0.7450

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	0.0240	$\Delta P_{C,s}$	0.0095
$\Delta P_{F,e}$	-0.0019	$\Delta P_{g,F}$	-0.0053

着色度 Color Code

λ_{80}/λ_5	345/285
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	511
T_s (℃)	546
$T_{10}^{14.5}$ (℃)	471
T_{10}^{13} (℃)	499
$T_{10}^{7.6}$(℃)	605
$\alpha_{-30/70℃}$(10^{-7}/K)	72
$\alpha_{100/300℃}$(10^{-7}/K)	93
λ[W/(m·K)]	

化学性质 Chemical Properties

	Grade
D_W	3
D_A	6
CR	4c
RC(S)	2
RA(S)	3

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.847	0.717
2200	0.926	0.858
2000	0.979	0.958
1800	0.989	0.979
1600	0.995	0.991
1400	0.992	0.984
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	0.996
460	0.998	0.996
440	0.998	0.996
420	0.997	0.995
400	0.997	0.994
390	0.995	0.991
380	0.992	0.984
370	0.986	0.972
360	0.972	0.945
350	0.946	0.894
340	0.897	0.804
330	0.812	0.660
320	0.683	0.466
310	0.510	0.260
300	0.321	0.103
290	0.164	0.027
280	0.071	0.005

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						
-40～-20	2.5	3.0	3.1	3.2	3.4	3.5
-20～0	2.3	2.8	2.9	3.3	3.5	3.7
0～20	2.5	2.8	3.2	3.4	3.5	3.8
20～40	2.3	3.1	3.0	3.2	3.7	4.6
40～60	2.6	3.0	3.1	3.1	3.9	3.9
60～80	3.1	3.3	3.4	3.4	3.8	3.9
80～100						
100～120						
120～140						

机械性质 Mechanical Properties

H_K (10^7Pa)	628
F_A	125
E (10^7Pa)	9767
G (10^7Pa)	3958
μ	0.234
B (10^{-12}/Pa)	2.08

其他性质 Other Properties

ρ (g/cm^3)	2.83

备注 Remarks

*:退火速率 anneal rate 4℃/h

CDGM