H-ZK4	609589	n_d = 1.608810	υ_d = 58.86	$n_F - n_C$ = 0.010344
		n_e = 1.611277	υ_e = 58.59	$n_{F'} - n_{C'}$ = 0.010434

折射率 Refractive Index

	λ（nm）	
$n_{2325.42}$	2325.42	1.579570
$n_{1970.09}$	1970.09	1.584934
$n_{1529.58}$	1529.58	1.590628
$n_{1060.0}$	1060.0	1.596574
n_t	1013.98	1.597260
n_s	852.11	1.600130
n_r	706.52	1.603881
n_C	656.27	1.605667
$n_{C'}$	643.85	1.606167
n_{He-Ne}	632.8	1.606635
n_D	589.29	1.608718
n_d	587.56	1.608810
n_e	546.07	1.611277
n_F	486.13	1.616011
$n_{F'}$	479.99	1.616601
n_g	435.83	1.621643
n_h	404.66	1.626318
n_i	365.01	1.634283
$n_{313.18}$	313.18	1.650462
$n_{302.15}$	302.15	1.655251

色散公式常数 Constants of Dispersion Formula

K_1	8.05862971E-01
L_1	3.65339732E-03
K_2	7.40367110E-01
L_2	1.62978769E-02
K_3	9.04054991E-01
L_3	9.59876087E+01

折射率温度系数常数 Constants of dn/dt

D_0	3.08E-07
D_1	1.68E-08
D_2	-3.77E-11
E_0	4.83E-07
E_1	4.10E-10
λ_{TK}(μm)	0.162

相对部分色散 Relative Partial Dispersions

$P_{s,t}$	0.2775	$P'_{s,t}$	0.2751
$P_{C,s}$	0.5353	$P'_{C',s}$	0.5786
$P_{d,C}$	0.3038	$P'_{d,C'}$	0.2533
$P_{e,d}$	0.2385	$P'_{e,d}$	0.2364
$P_{g,F}$	0.5445	$P'_{g,F'}$	0.4832
$P_{i,h}$	0.7700	$P'_{i,h}$	0.7634

异常色散 Abnormal Dispersions

$\Delta P_{C,t}$	-0.0108	$\Delta P_{C,s}$	-0.0056
$\Delta P_{F,e}$	0.0001	$\Delta P_{g,F}$	-0.0010

着色度 Color Code

λ_{80}/λ_5	350/295
λ_{70}/λ_5	

热性质 Thermal Properties

T_g (℃)	654
T_s (℃)	713
$T_{10}^{14.5}$ (℃)	606
T_{10}^{13} (℃)	643
$T_{10}^{7.6}$(℃)	788
$\alpha_{-30/70℃}$(10^{-7}/K)	63
$\alpha_{100/300℃}$(10^{-7}/K)	79
λ[W/(m·K)]	

化学性质 Chemical Properties

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

内部透过率 Internal Transmittance τ

λ（nm）	τ (5mm)	τ (10mm)
2400	0.910	0.828
2200	0.952	0.906
2000	0.983	0.967
1800	0.992	0.984
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	0.997	0.995
900	0.997	0.995
850	0.996	0.993
800	0.998	0.996
700	0.997	0.995
650	0.997	0.995
600	0.997	0.995
550	0.998	0.996
500	0.997	0.994
480	0.996	0.993
460	0.996	0.992
440	0.995	0.991
420	0.994	0.989
400	0.992	0.984
390	0.987	0.975
380	0.981	0.963
370	0.969	0.939
360	0.944	0.891
350	0.900	0.810
340	0.820	0.680
330	0.700	0.490
320	0.530	0.280
310	0.330	0.110
300	0.160	0.030
290		
280		

机械性质 Mechanical Properties

H_K (10^7Pa)	516
F_A	127
E (10^7Pa)	8112
G (10^7Pa)	3206
μ	0.265
B (10^{-12}/Pa)	1.90

其他性质 Other Properties

ρ (g/cm^3)	3.53

备注 Remarks

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	1.3	1.7	1.8	2.0	2.3	2.6
-40～-20	1.6	1.8	2.0	2.1	2.5	2.7
-20～0	1.7	2.0	2.2	2.4	2.6	2.9
0～20	1.9	2.2	2.4	2.6	2.8	3.2
20～40	1.9	2.3	2.5	2.6	3.0	3.3
40～60	2.0	2.4	2.6	2.8	3.2	3.4
60～80	2.2	2.6	2.7	2.8	3.2	3.5
80～100	2.2	2.8	2.9	2.9	3.4	3.7
100～120	2.3	2.8	2.9	3.1	3.4	3.8
120～140	2.5	3.0	2.9	3.3	3.6	3.9

CDGM