光明光电光学玻璃产品数据库

H-BaK5	561583	n_d =1.56069	υ_d =58.34	$n_{F'}-n_{C'}$ =0.009610
		n_e =1.56298	υ_e =58.07	$n_{F'}-n_{C'}$ =0.009694

Refractive Indices

	λ (nm)	
n_t	1014.0	1.54997
n_s	706.5	1.55611
n_C	656.3	1.55777
$n_{C'}$	643.8	1.55823
n_{He-Ne}	632.8	1.55867
n_D	589.3	1.56060
n_d	587.6	1.56069
n_e	546.1	1.56298
n_F	486.1	1.56738
$n_{F'}$	480.0	1.56793
n_g	435.8	1.57262
n_h	404.7	1.57697
n_i	365.0	1.58440

Constants of Dispersion Formula

A_0	2.3969877
A_1	-8.1409391×10^{-3}
A_2	1.4163553×10^{-2}
A_3	-1.3182657×10^{-5}
A_4	3.0937851×10^{-5}
A_5	-1.3335975×10^{-6}

Deviation of Relative Partial Dispersions ΔP from the"Normal Line"

$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0010

Relative Partial Dispersions

$P_{d,C}$	0.3037	$P'_{d,C'}$	0.2531
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5453	$P'_{g,F'}$	0.4839

Chemical Properties

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

Thermal Properties

T_g (℃)	586
T_s (℃)	657
$T_{10^{14.5}}$ (℃)	542
$T_{10^{13}}$ (℃)	586
$T_{10^{7.6}}$(℃)	754
$\alpha_{20/120℃}$(10^{-7}/K)	79
$\alpha_{100/300℃}$(10^{-7}/K)	88
λ (W/m・K)	

Mechanical Properties

H_K (10^7Pa)	542
F_A	106
E (10^7Pa)	7539
G (10^7Pa)	3033
μ	0.243
B (10^{-12}/Pa)	

Other Properties

ρ (g/cm³)	3.01

Internal Transmittance

λ (nm)	τ 5 mm	τ 10 mm
2400	0.936	0.877
2200	0.955	0.912
2000	0.983	0.966
1800	0.992	0.984
1600	0.999	0.998
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	0.997	0.995
650	0.997	0.994
600	0.997	0.994
550	0.997	0.994
500	0.996	0.992
480	0.994	0.989
460	0.994	0.988
440	0.994	0.988
420	0.994	0.988
400	0.994	0.988
390	0.992	0.985
380	0.989	0.978
370	0.987	0.974
360	0.978	0.957
350	0.960	0.921
340	0.921	0.848
330	0.84	0.71
320	0.69	0.48
310	0.45	0.20
300	0.17	0.03
290		
280		

Coloration Code

λ_{80}/λ_5	34/30

Temperature Coefficients of Refractive Index

Rang of Temperature	dn/dt relative(10^{-6}/℃)					
	t	C′	d	e	F′	g
-40～-20	1.1	1.6	1.8	2.0	2.4	2.9
-20～0	1.6	1.8	2.0	2.1	2.4	2.8
0～20	1.7	2.1	2.2	2.4	2.8	3.0
20～40	1.8	2.2	2.5	2.6	3.0	3.3
40～60	2.0	2.5	2.7	2.8	3.2	3.5
60～80	2.0	2.6	2.7	2.9	3.2	3.8

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