

J-SK16

$n_d = 1.620410$

$n_e = 1.622866$

$v_d = 60.25$

$v_e = 60.01$

Glass code (d)
620603
Glass code (e)
623600

Spectral l.	Refractive idx
2.058	1.59326
1.970	1.59473
1.530	1.60130
1.129	1.60686
1.064	1.60783
t	1.60862
s	1.61163
A'	1.613642
r	1.615463
C	1.617264
C'	1.617766
He-Ne	1.618234
D	1.620318
d	1.620410
e	1.622866
F	1.627562
F'	1.628145
g	1.633125
h	1.637732
0.389	1.640539
i	1.645569

Coef. disp. form. (pwr ser.)	
A0	2.58448044E+00
A1	-1.11132665E-02
A2	-1.37540448E-04
A3	1.49921982E-02
A4	1.88581834E-04
A5	3.56240422E-06
A6	7.76507396E-08
A7	0.00000000E+00
A8	0.00000000E+00

Partial dispersion	
F-C	0.010298
F'-C'	0.010379
C-t	0.008640
C-A'	0.003622
d-C	0.003146
e-C	0.005602
g-d	0.012715
g-F	0.005563
h-g	0.004607
i-g	0.012444
C'-t	0.009142
e-C'	0.005100
F'-e	0.005279
i-F'	0.017424

Relative partial dispersion	
C-t/F-C	0.8390
C-A'/F-C	0.3517
d-C/F-C	0.3055
e-C/F-C	0.5440
g-d/F-C	1.2347
g-F/F-C	0.5402
h-g/F-C	0.4474
i-g/F-C	1.2084
C'-t/F'-C'	0.8808
e-C'/F'-C'	0.4914
F'-e/F'-C'	0.5086
i-F'/F'-C'	1.6788

Deviation of relative partial disp.	
ΔPdC	0.0011
ΔPgF	-0.0031

Internal CC (80%/5%)	
347/303	

Color Code (80%/5%)	
360/305	

CCI	
B	0.00
G	0.20
R	0.16

Thermal properties	
CTE(-30,70) [1E-7/°C]	60
CTE(100,300) [1E-7/°C]	70
Tg [°C]	653
At [°C]	693
Ht condct. [W/m·K]	0.834
Sp. heat [kJ/kg·K]	0.515
Ht diffus. [1E-6 m2/sec]	0.456

Chemical properties [class]	
Acid res. (surface)	6
Alkaline detergent res.	4
Climate resistance	5
Water res. (powder)	3
Acid res. (powder)	5

Mechanical properties	
Knoop hardness	500 (5)
Abrasion hardness	124
Young's mod. [GPa]	87.2
Shear mod. [GPa]	34.6
Poisson's ratio	0.262
Stress optical coef. [1E-5 nm/cm/Pa]	2.27

Internal trans. (10mm)	
λ [nm]	τ
280	0.00
290	0.00
300	0.03
310	0.13
320	0.33
330	0.55
340	0.72
350	0.84
360	0.913
370	0.952
380	0.972
390	0.983
400	0.990
420	0.994
440	0.995
460	0.995
480	0.997
500	0.998
550	0.998
600	0.997
650	0.997
700	0.997
800	0.998
900	0.998
1000	0.998
1200	0.998
1400	0.979
1600	0.986
1800	0.971
2000	0.947
2200	0.83
2400	0.67

Specific gravity	
3.56	

Relative $\Delta n / \Delta T$ [1E-6/°C]																
Temp. [°C]	1.083	t	s	A'	r	C	C'	He-Ne	d	e	F	F'	g	h	0.389	
80 to 90 (ref.)	2.2	2.2	2.3	2.5	2.6	2.7	2.7	2.7	2.9	3.0	3.3	3.3	3.7	4.0	4.2	
60 to 80 (ref.)	2.2	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.8	2.9	3.2	3.3	3.6	3.9	4.1	
40 to 60	2.1	2.2	2.3	2.4	2.5	2.5	2.6	2.6	2.7	2.9	3.1	3.2	3.5	3.8	4.0	
20 to 40	2.1	2.1	2.3	2.3	2.4	2.5	2.5	2.6	2.7	2.8	3.1	3.1	3.4	3.7	3.9	
0 to 20	2.1	2.2	2.3	2.4	2.4	2.5	2.5	2.6	2.7	2.8	3.0	3.1	3.4	3.7	3.8	
-20 to 0	2.2	2.2	2.3	2.4	2.5	2.6	2.6	2.6	2.7	2.8	3.1	3.1	3.4	3.7	3.8	
-40 to -20	2.3	2.4	2.5	2.5	2.6	2.7	2.7	2.7	2.8	2.9	3.2	3.2	3.5	3.7	3.9	
-60 to -40 (ref.)	2.6	2.6	2.7	2.8	2.8	2.9	2.9	2.9	3.0	3.1	3.3	3.4	3.6	3.9	4.1	
-70 to -60 (ref.)	2.8	2.8	2.9	3.0	3.1	3.1	3.1	3.2	3.3	3.4	3.6	3.6	3.8	4.1	4.2	

Absolute $\Delta n / \Delta T$ [1E-6/°C]																
Temp. [°C]	1.083	t	s	A'	r	C	C'	He-Ne	d	e	F	F'	g	h	0.389	
80 to 90	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.7	1.8	2.0	2.3	2.3	2.7	3.0	3.2	
60 to 80	1.1	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	2.1	2.1	2.5	2.8	3.0	
40 to 60	0.9	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.9	1.9	2.2	2.5	2.7	
20 to 40	0.7	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.6	1.7	2.0	2.3	2.4	
0 to 20	0.5	0.6	0.7	0.7	0.8	0.9	0.9	0.9	1.0	1.2	1.4	1.4	1.7	2.0	2.2	
-20 to 0	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.9	1.2	1.2	1.5	1.7	1.9	
-40 to -20	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.9	1.0	1.2	1.5	1.6	
-60 to -40	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.7	0.7	1.0	1.2	1.3	
-70 to -60	-0.1	-0.1	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.5	0.8	1.0	1.1	

Coef. disp. form. (frac. eq.) (ref.)	
P1	1.17133032E-01
Q1	7.35971696E+01
P2	3.13502706E-02
Q2	2.07201986E-02
P3	3.14284226E-01
Q3	4.73371033E-03

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.3	7.6
Frac. eq. (ref.)	0.3	7.8

Prod. Freq. (A to D)	B
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Similar glass type			
OHARA	S-BSM16	HOYA	BACD16
CDGM	H-ZK9B	SCHOTT	N-SK16

2019-4-1	Transmittance, Tg
2016-4-1	Prod. Freq
2015-4-1	Color Code, Similar glass type, Please see the revision history about others.