

# J-SK2

$n_d = 1.607380$

$n_e = 1.609932$

$v_d = 56.74$

$v_e = 56.46$

Glass code (d)
607567
Glass code (e)
610565

Spectral l.	Refractive idx
2.058	1.58249
1.970	1.58367
1.530	1.58909
1.129	1.59394
1.064	1.59484
t	1.59558
s	1.59847
A'	1.600467
r	1.602303
C	1.604139
C'	1.604653
He-Ne	1.605134
D	1.607285
d	1.607380
e	1.609932
F	1.614843
F'	1.615456
g	1.620704
h	1.625584
0.389	1.628565
i	1.633926

Coef. disp. form. (pwr ser.)	
A0	2.53980653E+00
A1	-8.90433248E-03
A2	-8.40740070E-05
A3	1.55288703E-02
A4	2.21892881E-04
A5	3.98552039E-06
A6	1.13655993E-07
A7	0.00000000E+00
A8	0.00000000E+00

Partial dispersion	
F-C	0.010704
F'-C'	0.010803
C-t	0.008558
C-A'	0.003672
d-C	0.003241
e-C	0.005793
g-d	0.013324
g-F	0.005861
h-g	0.004880
i-g	0.013222
C'-t	0.009072
e-C'	0.005279
F'-e	0.005524
i-F'	0.018470

Relative partial dispersion	
C-t/F-C	0.7995
C-A'/F-C	0.3430
d-C/F-C	0.3028
e-C/F-C	0.5412
g-d/F-C	1.2448
g-F/F-C	0.5476
h-g/F-C	0.4559
i-g/F-C	1.2352
C'-t/F'-C'	0.8398
e-C'/F'-C'	0.4887
F'-e/F'-C'	0.5113
i-F'/F'-C'	1.7097

Deviation of relative partial disp.	
$\Delta PdC$	0.0000
$\Delta PgF$	-0.0016

Internal CC (80%/5%)	
336/292	

Color Code (80%/5%)	
350/295	

CCI	
B	-
G	-
R	-

Thermal properties	
CTE(-30,70) [1E-7/°C]	57
CTE(100,300) [1E-7/°C]	69
Tg [°C]	654
At [°C]	702
Ht condct. [W/m·K]	0.961
Sp. heat [kJ/kg·K]	0.548
Ht diffus. [1E-6 m2/sec]	0.496

Chemical properties [class]	
Acid res. (surface)	2
Alkaline detergent res.	2
Climate resistance	1
Water res. (powder)	1
Acid res. (powder)	3

Mechanical properties	
Knoop hardness	512 (5)
Abrasion hardness	164
Young's mod. [GPa]	77.6
Shear mod. [GPa]	30.6
Poisson's ratio	0.266
Stress optical coef. [1E-5 nm/cm/Pa]	2.50

Internal trans. (10mm)		
$\lambda$ [nm]	$\tau$	
280	0.00	
290	0.04	
300	0.14	
310	0.33	
320	0.54	
330	0.72	
340	0.84	
350	0.910	
360	0.951	
370	0.972	
380	0.983	
390	0.988	
400	0.992	
420	0.994	
440	0.994	
460	0.995	
480	0.995	
500	0.996	
550	0.996	
600	0.995	
650	0.995	
700	0.994	
800	0.995	
900	0.995	
1000	0.996	
1200	0.998	
1400	0.989	
1600	0.991	
1800	0.982	
2000	0.972	
2200	0.917	
2400	0.87	

Specific gravity	
3.53	

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.)	4.3	4.3	4.4	4.6	4.7	4.9	4.9	4.9	5.1	5.3	5.7	5.7	6.2	6.7	7.0	
60 to 80 (ref.)	4.1	4.2	4.3	4.4	4.6	4.7	4.7	4.8	4.9	5.1	5.5	5.6	6.0	6.5	6.7	
40 to 60	4.0	4.0	4.1	4.3	4.4	4.5	4.5	4.6	4.7	4.9	5.3	5.3	5.8	6.2	6.4	
20 to 40	3.8	3.8	4.0	4.1	4.2	4.3	4.3	4.4	4.5	4.7	5.1	5.1	5.5	5.9	6.2	
0 to 20	3.7	3.7	3.9	4.0	4.1	4.2	4.2	4.2	4.4	4.5	4.9	4.9	5.3	5.7	5.9	
-20 to 0	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.1	4.3	4.4	4.8	4.8	5.2	5.6	5.8	
-40 to -20	3.6	3.7	3.8	3.9	4.0	4.1	4.1	4.1	4.2	4.4	4.7	4.8	5.1	5.5	5.7	
-60 to -40 (ref.)	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.4	4.8	4.8	5.1	5.5	5.7	
-70 to -60 (ref.)	3.9	3.9	4.0	4.1	4.2	4.3	4.3	4.3	4.4	4.6	4.9	4.9	5.2	5.6	5.7	

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	3.3	3.3	3.5	3.6	3.7	3.9	3.9	3.9	4.1	4.3	4.7	4.7	5.2	5.7	5.9	
60 to 80	3.1	3.1	3.2	3.4	3.5	3.6	3.6	3.7	3.8	4.0	4.4	4.5	4.9	5.3	5.6	
40 to 60	2.8	2.8	2.9	3.0	3.1	3.3	3.3	3.3	3.5	3.7	4.0	4.1	4.5	4.9	5.2	
20 to 40	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.0	3.1	3.3	3.6	3.7	4.1	4.5	4.7	
0 to 20	2.1	2.1	2.3	2.4	2.5	2.6	2.6	2.6	2.8	2.9	3.3	3.3	3.7	4.1	4.3	
-20 to 0	1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.3	2.4	2.6	2.9	2.9	3.3	3.7	3.8	
-40 to -20	1.5	1.5	1.6	1.7	1.8	1.9	1.9	1.9	2.1	2.2	2.5	2.5	2.9	3.2	3.4	
-60 to -40	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	2.1	2.2	2.5	2.8	3.0	
-70 to -60	0.9	0.9	1.0	1.1	1.2	1.3	1.3	1.3	1.4	1.6	1.8	1.9	2.2	2.5	2.7	

Coef. disp. form. (frac. eq.) (ref.)	
P1	1.21503006E-01
Q1	9.35640895E+01
P2	5.14196139E-02
Q2	1.93145621E-02
P3	2.87770878E-01
Q3	4.39985459E-03

Fitting error of disp. form. $\sigma$ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.3	4.2
Frac. eq. (ref.)	0.3	4.2

Prod. Freq. (A to D)	C
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Similar glass type			
OHARA	S-BSM2	HOYA	BACD2
CDGM	H-ZK50	SCHOTT	N-SK2

2019-4-1	Transmittance
2016-4-1	Similar glass type
2015-4-1	Color Code, Prod. Freq