

J-SK15

$n_d = 1.622990$

$n_e = 1.625546$

$v_d = 58.12$

$v_e = 57.87$

Glass code (d)
623581
Glass code (e)
626579

Spectral l.	Refractive idx
2.058	1.59635
1.970	1.59771
1.530	1.60386
1.129	1.60920
1.064	1.61015
t	1.61094
s	1.61396
A'	1.616004
r	1.617872
C	1.619729
C'	1.620248
He-Ne	1.620733
D	1.622895
d	1.622990
e	1.625546
F	1.630448
F'	1.631058
g	1.636277
h	1.641119
0.389	1.644073
i	1.649378

Coef. disp. form. (pwr ser.)	
A0	2.59035665E+00
A1	-1.02907579E-02
A2	-1.19847148E-04
A3	1.57254882E-02
A4	1.90519844E-04
A5	6.52864472E-06
A6	-1.78313721E-08
A7	0.00000000E+00
A8	0.00000000E+00

Partial dispersion	
F-C	0.010719
F'-C'	0.010810
C-t	0.008788
C-A'	0.003725
d-C	0.003261
e-C	0.005817
g-d	0.013287
g-F	0.005829
h-g	0.004842
i-g	0.013101
C'-t	0.009307
e-C'	0.005298
F'-e	0.005512
i-F'	0.018320

Relative partial dispersion	
C-t/F-C	0.8199
C-A'/F-C	0.3475
d-C/F-C	0.3042
e-C/F-C	0.5427
g-d/F-C	1.2396
g-F/F-C	0.5438
h-g/F-C	0.4517
i-g/F-C	1.2222
C'-t/F'-C'	0.8610
e-C'/F'-C'	0.4901
F'-e/F'-C'	0.5099
i-F'/F'-C'	1.6947

Deviation of relative partial disp.	
ΔPdC	0.0008
ΔPgF	-0.0030

Internal CC (80%/5%)	
347/307	

Color Code (80%/5%)	
360/310	

CCI	
B	0.00
G	0.21
R	0.19

Thermal properties	
CTE(-30,70) [1E-7/°C]	60
CTE(100,300) [1E-7/°C]	70
Tg [°C]	651
At [°C]	696
Ht condct. [W/m·K]	0.975
Sp. heat [kJ/kg·K]	0.614
Ht diffus. [1E-6 m2/sec]	0.517

Chemical properties [class]	
Acid res. (surface)	7
Alkaline detergent res.	2
Climate resistance	2
Water res. (powder)	2
Acid res. (powder)	4

Mechanical properties	
Knoop hardness	507 (5)
Abrasion hardness	124
Young's mod. [GPa]	85.6
Shear mod. [GPa]	33.9
Poisson's ratio	0.264
Stress optical coef. [1E-5 nm/cm/Pa]	2.22

Internal trans. (10mm)	
λ [nm]	τ
280	0.00
290	0.00
300	0.00
310	0.08
320	0.29
330	0.53
340	0.73
350	0.85
360	0.915
370	0.954
380	0.973
390	0.984
400	0.990
420	0.995
440	0.995
460	0.996
480	0.998
500	0.998
550	0.999
600	0.999
650	0.998
700	0.999
800	0.998
900	0.996
1000	0.997
1200	0.998
1400	0.985
1600	0.988
1800	0.974
2000	0.952
2200	0.85
2400	0.73

Specific gravity	
3.58	

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.)	2.8	2.8	2.9	3.1	3.2	3.3	3.3	3.3	3.4	3.6	3.9	3.9	4.3	4.7	4.9	
60 to 80 (ref.)	2.6	2.7	2.8	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.7	3.8	4.1	4.5	4.7	
40 to 60	2.5	2.5	2.7	2.7	2.8	2.9	3.0	3.0	3.1	3.3	3.6	3.6	3.9	4.3	4.5	
20 to 40	2.4	2.4	2.5	2.6	2.7	2.8	2.8	2.8	3.0	3.1	3.4	3.4	3.8	4.1	4.3	
0 to 20	2.3	2.3	2.4	2.5	2.6	2.7	2.7	2.7	2.9	3.0	3.3	3.3	3.6	3.9	4.2	
-20 to 0	2.2	2.3	2.4	2.5	2.5	2.6	2.7	2.7	2.8	2.9	3.2	3.2	3.5	3.9	4.1	
-40 to -20	2.2	2.3	2.4	2.5	2.6	2.6	2.7	2.7	2.8	2.9	3.2	3.2	3.5	3.8	4.0	
-60 to -40 (ref.)	2.4	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.9	3.0	3.3	3.3	3.6	3.9	4.1	
-70 to -60 (ref.)	2.5	2.5	2.7	2.7	2.8	2.9	2.9	2.9	3.0	3.2	3.4	3.4	3.7	4.0	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	1.8	1.8	2.0	2.1	2.1	2.2	2.3	2.3	2.4	2.6	2.9	2.9	3.3	3.6	3.9	
60 to 80	1.6	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3	2.6	2.7	3.0	3.4	3.6	
40 to 60	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.3	2.3	2.7	3.0	3.2	
20 to 40	1.0	1.0	1.1	1.2	1.3	1.4	1.4	1.4	1.6	1.7	2.0	2.0	2.3	2.6	2.8	
0 to 20	0.7	0.7	0.8	0.9	1.0	1.1	1.1	1.1	1.2	1.4	1.6	1.7	2.0	2.3	2.5	
-20 to 0	0.4	0.4	0.5	0.6	0.7	0.8	0.8	0.8	0.9	1.0	1.3	1.3	1.6	1.9	2.1	
-40 to -20	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	1.0	1.0	1.3	1.6	1.7	
-60 to -40	-0.2	-0.2	-0.1	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.9	1.2	1.4	
-70 to -60	-0.4	-0.4	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	0.1	0.4	0.4	0.7	0.9	1.1	

Coef. disp. form. (frac. eq.) (ref.)	
P1	1.23469308E-01
Q1	8.35768084E+01
P2	3.22374048E-02
Q2	2.17575456E-02
P3	3.14247196E-01
Q3	4.85654114E-03

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.4	4.9
Frac. eq. (ref.)	0.4	5.4

Prod. Freq. (A to D)	B
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Similar glass type			
OHARA	S-BSM15	HOYA	BACD15
CDGM	H-ZK21	SCHOTT	-

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