

J-SFH6

 $n_d = 1.713380$
 $n_e = 1.719815$
 $v_d = 26.04$
 $v_e = 25.79$

Glass code (d)
713260
Glass code (e)
720258

Spectral l.	Refractive idx
2.058	1.66768
1.970	1.66921
1.530	1.67665
1.129	1.68438
1.064	1.68597
t	1.68734
s	1.69305
A'	1.697280
r	1.701356
C	1.705581
C'	1.706791
He-Ne	1.707931
D	1.713145
d	1.713380
e	1.719815
F	1.732977
F'	1.734697
g	1.750227
h	1.766223
0.389	1.776959
i	-

Coef. disp. form. (pwr ser.)	
A0	2.82553965E+00
A1	-1.23310785E-02
A2	0.00000000E+00
A3	3.25389121E-02
A4	3.24003911E-03
A5	-6.19484120E-04
A6	1.56509513E-04
A7	-1.74645253E-05
A8	9.29550541E-07

Partial dispersion	
F-C	0.027396
F'-C'	0.027906
C-t	0.018237
C-A'	0.008301
d-C	0.007799
e-C	0.014234
g-d	0.036847
g-F	0.017250
h-g	0.015996
i-g	-
C'-t	0.019447
e-C'	0.013024
F'-e	0.014882
i-F'	-

Relative partial dispersion	
C-t/F-C	0.6657
C-A'/F-C	0.3030
d-C/F-C	0.2847
e-C/F-C	0.5196
g-d/F-C	1.3450
g-F/F-C	0.6297
h-g/F-C	0.5839
i-g/F-C	-
C'-t/F'-C'	0.6969
e-C'/F'-C'	0.4667
F'-e/F'-C'	0.5333
i-F'/F'-C'	-

Deviation of relative partial disp.	
ΔPdC	-0.0043
ΔPgF	0.0290

Internal CC (80%/5%)	
404/374	
Color Code (80%/5%)	
425/375	
CCI	
B	0.00
G	4.19
R	4.31

Thermal properties	
CTE(-30,70) [1E-7/°C]	101
CTE(100,300) [1E-7/°C]	131
Tg [°C]	524
At [°C]	568
StP [°C]	-
AP [°C]	-
SP [°C]	-
Ht condct. [W/m·K]	0.842
Sp. heat [kJ/kg·K]	0.710
Ht diffus. [1E-6 m2/sec]	0.385

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

Mechanical properties	
Knoop hardness	394(4)
Abrasion hardness	432
Young's mod. [GPa]	76.5
Shear mod. [GPa]	30.3
Poisson's ratio	0.263
Stress optical coef. [1E-5 nm/cm/Pa]	2.74

Internal trans. (10mm)		
λ [nm]	τ	
280	-	
290	-	
300	-	
310	-	
320	-	
330	-	
340	-	
350	-	
360	-	
370	0.03	
380	0.16	
390	0.50	
400	0.74	
420	0.914	
440	0.961	
460	0.977	
480	0.984	
500	0.988	
550	0.996	
600	0.998	
650	0.998	
700	0.999	
800	0.999	
900	0.999	
1000	0.999	
1200	0.999	
1400	0.998	
1600	0.989	
1800	0.955	
2000	0.911	
2200	0.84	
2400	0.77	

Specific gravity	
3.09	

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.)	-4.2	-4.1	-3.8	-3.5	-3.2	-2.9	-2.8	-2.7	-2.2	-1.5	-0.1	0.2	2.4	5.5	8.2		
60 to 80 (ref.)	-4.2	-4.1	-3.8	-3.5	-3.3	-2.9	-2.8	-2.8	-2.3	-1.7	-0.2	0.0	2.1	5.1	7.6		
40 to 60	-4.2	-4.1	-3.8	-3.6	-3.3	-3.0	-2.9	-2.9	-2.4	-1.8	-0.5	-0.3	1.8	4.5	6.9		
20 to 40	-4.2	-4.1	-3.9	-3.6	-3.4	-3.1	-3.0	-2.9	-2.5	-1.9	-0.7	-0.5	1.4	4.0	6.2		
0 to 20	-4.2	-4.1	-3.8	-3.6	-3.4	-3.1	-3.0	-2.9	-2.5	-2.0	-0.8	-0.7	1.1	3.6	5.6		
-20 to 0	-4.1	-4.0	-3.7	-3.5	-3.3	-3.1	-3.0	-2.9	-2.5	-2.1	-0.9	-0.8	0.9	3.1	5.1		
-40 to -20	-3.9	-3.8	-3.6	-3.4	-3.2	-3.0	-2.9	-2.8	-2.5	-2.0	-1.0	-0.8	0.7	2.8	4.6		
-60 to -40 (ref.)	-3.6	-3.6	-3.4	-3.2	-3.0	-2.8	-2.7	-2.6	-2.3	-1.9	-0.9	-0.8	0.6	2.6	4.2		
-70 to -60 (ref.)	-3.4	-3.3	-3.1	-2.9	-2.7	-2.5	-2.5	-2.4	-2.1	-1.7	-0.8	-0.6	0.7	2.5	4.0		

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	-5.2	-5.1	-4.8	-4.5	-4.3	-3.9	-3.8	-3.7	-3.2	-2.6	-1.1	-0.9	1.3	4.4	7.0		
60 to 80	-5.3	-5.2	-4.9	-4.7	-4.4	-4.1	-4.0	-3.9	-3.4	-2.8	-1.4	-1.2	0.9	3.9	6.4		
40 to 60	-5.5	-5.4	-5.1	-4.9	-4.6	-4.3	-4.2	-4.2	-3.7	-3.1	-1.8	-1.6	0.4	3.2	5.5		
20 to 40	-5.7	-5.6	-5.3	-5.1	-4.9	-4.6	-4.5	-4.4	-4.0	-3.4	-2.2	-2.0	-0.1	2.5	4.7		
0 to 20	-5.8	-5.7	-5.5	-5.3	-5.1	-4.8	-4.7	-4.6	-4.3	-3.7	-2.6	-2.4	-0.6	1.8	3.8		
-20 to 0	-6.0	-5.9	-5.7	-5.5	-5.3	-5.0	-5.0	-4.9	-4.5	-4.0	-3.0	-2.8	-1.2	1.1	3.0		
-40 to -20	-6.2	-6.1	-5.9	-5.7	-5.5	-5.3	-5.2	-5.1	-4.8	-4.4	-3.3	-3.2	-1.7	0.4	2.1		
-60 to -40	-6.3	-6.3	-6.1	-5.9	-5.7	-5.5	-5.4	-5.4	-5.1	-4.7	-3.7	-3.6	-2.2	-0.3	1.2		
-70 to -60	-6.4	-6.4	-6.2	-6.0	-5.9	-5.7	-5.6	-5.6	-5.3	-4.9	-4.0	-3.9	-2.6	-0.9	0.6		

Coef. disp. form. (frac. eq.) (ref.)	
P1	9.27389277E-02
Q1	6.45462057E+01
P2	2.17316868E-02
Q2	7.04718985E-02
P3	3.56210137E-01
Q3	8.65769011E-03

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.9	5.0
Frac. eq. (ref.)	4.9	16.9

Prod. Freq. (A to D)	A
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Similar glass type			
OHARA	-	HOYA	-
CDGM	-	SCHOTT	-

-	-
2021-4-1	1st edition