

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]	491
AP [°C]	516
SP [°C]	620
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	-

-	-
2022-7-1	StP, AP, SP
2021-4-1	1st edition