

J-PSKH8

 $n_d = 1.628460$
 $n_e = 1.630988$
 $v_d = 59.17$
 $v_e = 58.81$

Glass code (d)
628592
Glass code (e)
631588

Spectral l.	Refractive idx
2.058	1.60535
1.970	1.60635
1.530	1.61107
1.129	1.61549
1.064	1.61632
t	1.61702
s	1.61977
A'	1.621689
r	1.623473
C	1.625268
C'	1.625774
He-Ne	1.626246
D	1.628366
d	1.628460
e	1.630988
F	1.635889
F'	1.636503
g	1.641791
h	1.646759
0.389	1.649825
i	1.655415

Coef. disp. form. (pwr ser.)	
A0	2.60815614E+00
A1	-8.16775932E-03
A2	-
A3	1.50613778E-02
A4	3.69238186E-04
A5	-1.11180030E-05
A6	1.41616753E-06
A7	-6.52373713E-08
A8	6.98536029E-09

Partial dispersion	
F-C	0.010621
F'-C'	0.010729
C-t	0.008250
C-A'	0.003579
d-C	0.003192
e-C	0.005720
g-d	0.013331
g-F	0.005902
h-g	0.004968
i-g	0.013624
C'-t	0.008756
e-C'	0.005214
F'-e	0.005515
i-F'	0.018912

Relative partial dispersion	
C-t/F-C	0.7768
C-A'/F-C	0.3370
d-C/F-C	0.3005
e-C/F-C	0.5386
g-d/F-C	1.2552
g-F/F-C	0.5557
h-g/F-C	0.4678
i-g/F-C	1.2827
C'-t/F'-C'	0.8161
e-C'/F'-C'	0.4860
F'-e/F'-C'	0.5140
i-F'/F'-C'	1.7627

Deviation of relative partial disp.	
ΔPdC	-0.0034
ΔPgF	0.0106

Internal CC (80%/5%)	
379/348	
Color Code (80%/5%)	
390/350	
CCI	
B	0.00
G	0.95
R	0.90

Thermal properties	
CTE(-30,70) [1E-7/°C]	100
CTE(100,300) [1E-7/°C]	122
Tg [°C]	587
At [°C]	618
StP [°C]	-
AP [°C]	-
SP [°C]	-
Ht condct. [W/m·K]	0.665
Sp. heat [kJ/kg·K]	0.520
Ht diffus. [1E-6 m2/sec]	0.316

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

Mechanical properties	
Knoop hardness	413 (4)
Abrasion hardness	391
Young's mod. [GPa]	82.2
Shear mod. [GPa]	31.9
Poisson's ratio	0.289
Stress optical coef. [1E-5 nm/cm/Pa]	0.70

Internal trans. (10mm)		
λ [nm]	τ	
280	-	
290	-	
300	-	
310	-	
320	-	
330	-	
340	-	
350	0.08	
360	0.36	
370	0.65	
380	0.82	
390	0.904	
400	0.947	
420	0.979	
440	0.988	
460	0.991	
480	0.994	
500	0.995	
550	0.998	
600	0.996	
650	0.995	
700	0.996	
800	0.998	
900	0.998	
1000	0.999	
1200	0.999	
1400	0.999	
1600	0.999	
1800	0.995	
2000	0.990	
2200	0.983	
2400	0.969	

Specific gravity
4.05

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.)	-4.6	-4.5	-4.5	-4.3	-4.2	-4.1	-4.1	-4.1	-3.9	-3.8	-3.4	-3.4	-3.0	-2.5	-2.3	
60 to 80 (ref.)	-4.6	-4.5	-4.4	-4.3	-4.2	-4.1	-4.1	-4.1	-4.0	-3.8	-3.5	-3.4	-3.0	-2.6	-2.3	
40 to 60	-4.6	-4.5	-4.4	-4.3	-4.2	-4.1	-4.1	-4.1	-4.0	-3.8	-3.5	-3.5	-3.1	-2.7	-2.4	
20 to 40	-4.5	-4.5	-4.4	-4.3	-4.2	-4.1	-4.1	-4.1	-3.9	-3.8	-3.5	-3.5	-3.1	-2.7	-2.4	
0 to 20	-4.4	-4.4	-4.3	-4.2	-4.1	-4.0	-4.0	-4.0	-3.9	-3.7	-3.4	-3.4	-3.1	-2.7	-2.4	
-20 to 0	-4.3	-4.2	-4.2	-4.1	-4.0	-3.9	-3.9	-3.9	-3.8	-3.6	-3.3	-3.3	-3.0	-2.6	-2.4	
-40 to -20	-4.1	-4.0	-4.0	-3.9	-3.8	-3.7	-3.7	-3.7	-3.6	-3.4	-3.2	-3.2	-2.8	-2.5	-2.3	
-60 to -40 (ref.)	-3.8	-3.8	-3.7	-3.6	-3.5	-3.4	-3.4	-3.4	-3.3	-3.2	-2.9	-2.9	-2.6	-2.3	-2.1	
-70 to -60 (ref.)	-3.5	-3.5	-3.4	-3.3	-3.2	-3.2	-3.1	-3.1	-3.0	-2.9	-2.7	-2.6	-2.3	-2.0	-1.8	

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	-5.6	-5.5	-5.4	-5.3	-5.2	-5.1	-5.1	-5.1	-5.0	-4.8	-4.5	-4.4	-4.0	-3.6	-3.3	
60 to 80	-5.7	-5.6	-5.5	-5.4	-5.3	-5.2	-5.2	-5.2	-5.1	-4.9	-4.6	-4.6	-4.2	-3.7	-3.5	
40 to 60	-5.8	-5.8	-5.7	-5.6	-5.5	-5.4	-5.4	-5.3	-5.2	-5.1	-4.8	-4.7	-4.3	-4.0	-3.7	
20 to 40	-5.9	-5.9	-5.8	-5.7	-5.6	-5.5	-5.5	-5.5	-5.4	-5.2	-4.9	-4.9	-4.5	-4.2	-3.9	
0 to 20	-6.0	-6.0	-5.9	-5.8	-5.7	-5.7	-5.6	-5.6	-5.5	-5.4	-5.1	-5.1	-4.7	-4.4	-4.1	
-20 to 0	-6.1	-6.1	-6.0	-5.9	-5.9	-5.8	-5.8	-5.7	-5.6	-5.5	-5.3	-5.2	-4.9	-4.6	-4.3	
-40 to -20	-6.2	-6.2	-6.1	-6.1	-6.0	-5.9	-5.9	-5.9	-5.8	-5.7	-5.4	-5.4	-5.1	-4.8	-4.6	
-60 to -40	-6.4	-6.3	-6.3	-6.2	-6.1	-6.1	-6.0	-6.0	-5.9	-5.8	-5.6	-5.6	-5.3	-5.0	-4.8	
-70 to -60	-6.4	-6.4	-6.4	-6.3	-6.2	-6.2	-6.1	-6.1	-6.0	-5.9	-5.7	-5.7	-5.4	-5.1	-5.0	

Coef. disp. form. (frac. eq.) (ref.)	
P1	9.37459258E-02
Q1	8.62953408E+01
P2	5.86291615E-03
Q2	4.93370242E-02
P3	3.43011681E-01
Q3	5.56912524E-03

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.4	13.6
Frac. eq. (ref.)	1.8	16.8

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

-	-
2020-4-1	1st edition