

J-FKH2

$n_d = 1.456000$

$n_e = 1.457192$

$v_d = 91.36$

$v_e = 90.97$

Glass code (d)
456914
Glass code (e)
457910

Spectral l.	Refractive idx
2.058	1.44327
1.970	1.44391
1.530	1.44685
1.129	1.44943
1.064	1.44990
t	1.45028
s	1.45173
A'	1.452705
r	1.453592
C	1.454469
C'	1.454714
He-Ne	1.454942
D	1.455955
d	1.456000
e	1.457192
F	1.459460
F'	1.459740
g	1.462126
h	1.464317
0.389	1.465643
i	1.468003

Partial dispersion	
F-C	0.004991
F'-C'	0.005026
C-t	0.004192
C-A'	0.001764
d-C	0.001531
e-C	0.002723
g-d	0.006126
g-F	0.002666
h-g	0.002191
i-g	0.005877
C'-t	0.004437
e-C'	0.002478
F'-e	0.002548
i-F'	0.008263

Relative partial dispersion	
C-t/F-C	0.8399
C-A'/F-C	0.3534
d-C/F-C	0.3068
e-C/F-C	0.5456
g-d/F-C	1.2274
g-F/F-C	0.5342
h-g/F-C	0.4390
i-g/F-C	1.1775
C'-t/F'-C'	0.8828
e-C'/F'-C'	0.4930
F'-e/F'-C'	0.5070
i-F'/F'-C'	1.6441

Deviation of relative partial disp.	
ΔPdC	-0.0117
ΔPgF	0.0431

Internal CC (80%/5%)	
341/299	
Color Code (80%/5%)	
345/300	
CCI	
B	0.00
G	0.19
R	0.13

Thermal properties	
CTE(-30,70) [1E-7/°C]	134
CTE(100,300) [1E-7/°C]	160
Tg [°C]	454
At [°C]	482
StP [°C]	410
AP [°C]	437
SP [°C]	530
Ht condct. [W/m·K]	0.868
Sp. heat [kJ/kg·K]	0.684
Ht diffus. [1E-6 m2/sec]	0.345

Chemical properties [class]	
Acid res. (surface)	7
Alkaline detergent res.	4
Climate resistance	1
Water res. (powder)	1
Acid res. (powder)	3

Mechanical properties	
Knoop hardness	335 (3)
Abrasion hardness	404
Young's mod. [GPa]	71.4
Shear mod. [GPa]	27.3
Poisson's ratio	0.305
Stress optical coef. [1E-5 nm/cm/Pa]	0.82

Internal trans. (10mm)		
λ [nm]	τ	
280	-	
290	-	
300	0.06	
310	0.18	
320	0.39	
330	0.61	
340	0.79	
350	0.89	
360	0.949	
370	0.976	
380	0.988	
390	0.993	
400	0.995	
420	0.994	
440	0.994	
460	0.996	
480	0.996	
500	0.998	
550	0.999	
600	0.998	
650	0.997	
700	0.998	
800	0.996	
900	0.994	
1000	0.994	
1200	0.995	
1400	0.994	
1600	0.994	
1800	0.991	
2000	0.995	
2200	0.994	
2400	0.998	

Specific gravity	
3.67	

Coef. disp. form. (pwr ser.)	
A0	2.10149795E+00
A1	-4.68337833E-03
A2	-1.34642385E-05
A3	6.77542246E-03
A4	4.53499889E-05
A5	2.24209054E-06
A6	-6.21790903E-08
A7	0.00000000E+00
A8	0.00000000E+00

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.)	-6.9	-6.9	-6.9	-6.8	-6.8	-6.7	-6.7	-6.7	-6.6	-6.5	-6.4	-6.4	-6.3	-6.1	-6.0	
60 to 80 (ref.)	-6.8	-6.7	-6.7	-6.6	-6.6	-6.5	-6.5	-6.5	-6.5	-6.4	-6.3	-6.3	-6.1	-6.0	-5.9	
40 to 60	-6.5	-6.5	-6.5	-6.4	-6.4	-6.3	-6.3	-6.3	-6.2	-6.2	-6.1	-6.0	-5.9	-5.8	-5.7	
20 to 40	-6.3	-6.3	-6.2	-6.2	-6.1	-6.1	-6.1	-6.0	-6.0	-5.9	-5.8	-5.8	-5.7	-5.5	-5.4	
0 to 20	-6.0	-6.0	-5.9	-5.9	-5.8	-5.8	-5.8	-5.8	-5.7	-5.7	-5.5	-5.5	-5.4	-5.3	-5.2	
-20 to 0	-5.6	-5.6	-5.6	-5.5	-5.5	-5.5	-5.4	-5.4	-5.4	-5.3	-5.2	-5.2	-5.1	-4.9	-4.9	
-40 to -20	-5.2	-5.2	-5.2	-5.1	-5.1	-5.1	-5.1	-5.0	-5.0	-4.9	-4.8	-4.8	-4.7	-4.6	-4.5	
-60 to -40 (ref.)	-4.8	-4.7	-4.7	-4.7	-4.6	-4.6	-4.6	-4.6	-4.5	-4.5	-4.4	-4.4	-4.4	-4.2	-4.1	
-70 to -60 (ref.)	-4.3	-4.3	-4.3	-4.2	-4.2	-4.2	-4.2	-4.2	-4.1	-4.1	-3.9	-3.9	-3.8	-3.7	-3.6	

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	-7.8	-7.8	-7.7	-7.7	-7.7	-7.6	-7.6	-7.6	-7.5	-7.5	-7.3	-7.3	-7.2	-7.0	-7.0	
60 to 80	-7.7	-7.7	-7.7	-7.6	-7.6	-7.5	-7.5	-7.5	-7.5	-7.4	-7.3	-7.3	-7.1	-7.0	-6.9	
40 to 60	-7.6	-7.6	-7.6	-7.5	-7.5	-7.4	-7.4	-7.4	-7.4	-7.3	-7.2	-7.2	-7.0	-6.9	-6.8	
20 to 40	-7.5	-7.5	-7.5	-7.4	-7.4	-7.3	-7.3	-7.3	-7.3	-7.2	-7.1	-7.1	-7.0	-6.8	-6.7	
0 to 20	-7.4	-7.4	-7.3	-7.3	-7.3	-7.2	-7.2	-7.2	-7.2	-7.1	-7.0	-7.0	-6.9	-6.8	-6.7	
-20 to 0	-7.3	-7.3	-7.2	-7.2	-7.2	-7.1	-7.1	-7.1	-7.1	-7.0	-6.9	-6.9	-6.8	-6.7	-6.6	
-40 to -20	-7.2	-7.2	-7.1	-7.1	-7.1	-7.0	-7.0	-7.0	-7.0	-6.9	-6.8	-6.8	-6.7	-6.6	-6.5	
-60 to -40	-7.1	-7.1	-7.0	-7.0	-7.0	-6.9	-6.9	-6.9	-6.9	-6.8	-6.7	-6.7	-6.6	-6.5	-6.4	
-70 to -60	-7.0	-7.0	-7.0	-6.9	-6.9	-6.9	-6.9	-6.9	-6.8	-6.8	-6.7	-6.7	-6.6	-6.5	-6.4	

Coef. disp. form. (frac. eq.) (ref.)	
P1	-
Q1	-
P2	-
Q2	-
P3	-
Q3	-

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.3	3.8
Frac. eq. (ref.)	-	-

Prod. Freq. (A to D)	C
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Similar glass type			
OHARA	-	HOYA	-
CDGM	-	SCHOTT	N-FK58

2022-7-1	StP, AP, SP
2019-4-1	Transmittance
2016-4-1	Similar glass type