

J-LF6

$n_d = 1.567320$

$n_e = 1.570480$

$v_d = 42.58$

$v_e = 42.29$

Glass code (d)	567426
Glass code (e)	570423

Spectral l.	Refractive idx
2.058	1.53950
1.970	1.54071
1.530	1.54633
1.129	1.55153
1.064	1.55252
t	1.55336
s	1.55666
A'	1.558991
r	1.561168
C	1.563371
C'	1.563993
He-Ne	1.564576
D	1.567203
d	1.567320
e	1.570480
F	1.576695
F'	1.577484
g	1.584361
h	1.590985
0.389	1.595163
i	1.602977

Coef. disp. form. (pwr ser.)	
A0	2.40368894E+00
A1	-8.44989386E-03
A2	-1.22270670E-04
A3	1.83786358E-02
A4	9.28895588E-05
A5	9.23801901E-05
A6	-9.14295770E-06
A7	5.77555194E-07
A8	0.00000000E+00

Partial dispersion	
F-C	0.013324
F'-C'	0.013491
C-t	0.010016
C-A'	0.004380
d-C	0.003949
e-C	0.007109
g-d	0.017041
g-F	0.007666
h-g	0.006624
i-g	0.018616
C'-t	0.010638
e-C'	0.006487
F'-e	0.007004
i-F'	0.025493

Relative partial dispersion	
C-t/F-C	0.7517
C-A'/F-C	0.3287
d-C/F-C	0.2964
e-C/F-C	0.5335
g-d/F-C	1.2790
g-F/F-C	0.5754
h-g/F-C	0.4971
i-g/F-C	1.3972
C'-t/F'-C'	0.7885
e-C'/F'-C'	0.4808
F'-e/F'-C'	0.5192
i-F'/F'-C'	1.8896

Deviation of relative partial disp.	
ΔPdC	0.0000
ΔPgF	0.0024

Internal CC (80%/5%)	
368/343	

Color Code (80%/5%)	
375/345	

CCI	
B	0.00
G	0.33
R	0.33

Thermal properties	
CTE(-30,70) [1E-7/°C]	91
CTE(100,300) [1E-7/°C]	106
Tg [°C]	499
At [°C]	557
Ht condct. [W/m·K]	1.070
Sp. heat [kJ/kg·K]	0.784
Ht diffus. [1E-6 m2/sec]	0.524

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	476 (5)
Abrasion hardness	119
Young's mod. [GPa]	73.4
Shear mod. [GPa]	29.8
Poisson's ratio	0.232
Stress optical coef. [1E-5 nm/cm/Pa]	2.69

Internal trans. (10mm)	
λ [nm]	τ
280	0.00
290	0.00
300	0.00
310	0.00
320	0.00
330	0.00
340	0.00
350	0.19
360	0.56
370	0.83
380	0.934
390	0.971
400	0.986
420	0.994
440	0.995
460	0.997
480	0.998
500	0.998
550	0.999
600	0.999
650	0.999
700	0.999
800	0.998
900	0.996
1000	0.996
1200	0.997
1400	0.993
1600	0.987
1800	0.963
2000	0.933
2200	0.86
2400	0.82

Specific gravity	
2.61	

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.)	0.6	0.6	0.8	1.0	1.1	1.3	1.3	1.3	1.6	1.8	2.4	2.4	3.2	4.0	4.5	
60 to 80 (ref.)	0.5	0.6	0.8	0.9	1.0	1.2	1.2	1.3	1.5	1.7	2.3	2.3	3.0	3.8	4.4	
40 to 60	0.4	0.5	0.7	0.8	1.0	1.1	1.1	1.2	1.4	1.6	2.1	2.2	2.9	3.6	4.1	
20 to 40	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.1	1.3	1.5	2.0	2.1	2.7	3.5	4.0	
0 to 20	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.1	1.3	1.5	2.0	2.0	2.6	3.3	3.8	
-20 to 0	0.5	0.5	0.7	0.8	0.9	1.1	1.1	1.1	1.3	1.5	2.0	2.0	2.6	3.2	3.7	
-40 to -20	0.6	0.6	0.8	0.9	1.0	1.1	1.2	1.2	1.4	1.6	2.0	2.1	2.6	3.2	3.7	
-60 to -40 (ref.)	0.8	0.8	1.0	1.1	1.2	1.3	1.4	1.4	1.6	1.7	2.2	2.2	2.7	3.3	3.7	
-70 to -60 (ref.)	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.6	1.8	1.9	2.3	2.4	2.9	3.4	3.8	

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	-0.4	-0.3	-0.2	0.0	0.1	0.3	0.3	0.4	0.6	0.8	1.4	1.5	2.2	3.0	3.5	
60 to 80	-0.5	-0.5	-0.3	-0.2	0.0	0.1	0.2	0.2	0.4	0.7	1.2	1.3	1.9	2.7	3.3	
40 to 60	-0.7	-0.7	-0.5	-0.4	-0.2	-0.1	-0.1	0.0	0.2	0.4	0.9	1.0	1.6	2.4	2.9	
20 to 40	-0.9	-0.9	-0.7	-0.6	-0.4	-0.3	-0.3	-0.2	-0.1	0.2	0.7	0.7	1.3	2.0	2.5	
0 to 20	-1.1	-1.1	-0.9	-0.8	-0.7	-0.5	-0.5	-0.5	-0.3	-0.1	0.4	0.4	1.0	1.7	2.2	
-20 to 0	-1.3	-1.3	-1.1	-1.0	-0.9	-0.7	-0.7	-0.7	-0.5	-0.3	0.1	0.2	0.7	1.4	1.8	
-40 to -20	-1.5	-1.4	-1.3	-1.2	-1.1	-1.0	-0.9	-0.9	-0.7	-0.6	-0.1	-0.1	0.4	1.0	1.5	
-60 to -40	-1.7	-1.6	-1.5	-1.4	-1.3	-1.2	-1.2	-1.1	-1.0	-0.8	-0.4	-0.4	0.1	0.7	1.1	
-70 to -60	-1.8	-1.8	-1.7	-1.6	-1.5	-1.3	-1.3	-1.3	-1.2	-1.0	-0.6	-0.6	-0.1	0.4	0.8	

Coef. disp. form. (frac. eq.) (ref.)	
P1	9.96589303E-02
Q1	7.47533697E+01
P2	1.06620520E-02
Q2	5.58428365E-02
P3	3.08177533E-01
Q3	7.01297392E-03

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	0.5	10.1
Frac. eq. (ref.)	1.2	9.1

Prod. Freq. (A to D)	D
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Similar glass type			
OHARA	S-TIL26	HOYA	E-FL6
CDGM	H-QF56	SCHOTT	-

2019-4-1	Transmittance
2018-4-1	Prod. Freq.
2015-4-1	Color Code, Prod. Freq.