

J-LASFH24HS

$n_d = 1.902000$

$n_e = 1.910410$

$v_d = 25.26$

$v_e = 25.06$

Glass code (d)
902253
Glass code (e)
910251

Spectral l.	Refractive idx
2.058	1.84515
1.970	1.84681
1.530	1.85508
1.129	1.86432
1.064	1.86631
t	1.86804
s	1.87537
A'	1.880892
r	1.886230
C	1.891774
C'	1.893362
He-Ne	1.894858
D	1.901692
d	1.902000
e	1.910410
F	1.927478
F'	1.929693
g	1.949493
h	1.969440
0.389	1.982512
i	-

Partial dispersion	
F-C	0.035704
F'-C'	0.036331
C-t	0.023731
C-A'	0.010882
d-C	0.010226
e-C	0.018636
g-d	0.047493
g-F	0.022015
h-g	0.019947
i-g	-
C'-t	0.025319
e-C'	0.017048
F'-e	0.019283
i-F'	-

Internal CC (80%/5%)	
400/366	
Color Code (70%/5%)	
410/365	
CCI	
B	0.00
G	3.65
R	3.80

Internal trans. (10mm)	
λ [nm]	τ
280	-
290	-
300	-
310	-
320	-
330	-
340	-
350	-
360	-
370	0.13
380	0.45
390	0.69
400	0.81
420	0.910
440	0.951
460	0.969
480	0.978
500	0.984
550	0.994
600	0.996
650	0.996
700	0.997
800	0.997
900	0.997
1000	0.998
1200	0.999
1400	0.998
1600	0.997
1800	0.989
2000	0.980
2200	0.959
2400	0.905

Thermal properties	
CTE(-30,70) [1E-7/°C]	77
CTE(100,300) [1E-7/°C]	89
Tg [°C]	659
At [°C]	706
StP [°C]	613
AP [°C]	649
SP [°C]	771
Ht condct. [W/m·K]	0.983
Sp. heat [kJ/kg·K]	0.551
Ht diffus. [1E-6 m2/sec]	0.436

Relative partial dispersion	
C-t/F-C	0.6647
C-A'/F-C	0.3048
d-C/F-C	0.2864
e-C/F-C	0.5220
g-d/F-C	1.3302
g-F/F-C	0.6166
h-g/F-C	0.5587
i-g/F-C	-
C'-t/F'-C'	0.6969
e-C'/F'-C'	0.4692
F'-e/F'-C'	0.5308
i-F'/F'-C'	-

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

Coef. disp. form. (pwr ser.)	
A0	3.45215485E+00
A1	-1.40748042E-02
A2	0.00000000E+00
A3	5.02420375E-02
A4	3.57942817E-03
A5	-4.94644665E-04
A6	1.29480898E-04
A7	-1.35467075E-05
A8	6.96875364E-07

Mechanical properties	
Knoop hardness	513 (5)
Abrasion hardness	144
Young's mod. [GPa]	102.1
Shear mod. [GPa]	39.7
Poisson's ratio	0.285
Stress optical coef. [1E-5 nm/cm/Pa]	2.34

Deviation of relative partial disp.	
ΔPdC	-0.0022
ΔPgF	0.0146

Specific gravity	
4.1	

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.)	0.3	0.4	0.7	1.1	1.5	1.9	2.0	2.1	2.7	3.5	5.2	5.4	7.8	10.9	-	-
60 to 80 (ref.)	0.1	0.3	0.7	1.0	1.3	1.7	1.8	1.9	2.5	3.2	4.9	5.1	7.4	10.3	-	-
40 to 60	0.0	0.1	0.5	0.8	1.1	1.5	1.6	1.7	2.2	2.9	4.5	4.7	6.8	9.6	-	-
20 to 40	-0.2	0.0	0.3	0.6	0.9	1.3	1.4	1.5	2.0	2.6	4.1	4.3	6.3	8.9	-	-
0 to 20	-0.2	-0.1	0.2	0.5	0.8	1.1	1.2	1.3	1.8	2.4	3.8	4.0	5.9	8.2	-	-
-20 to 0	-0.3	-0.2	0.2	0.4	0.7	1.0	1.1	1.2	1.7	2.2	3.5	3.7	5.5	7.6	-	-
-40 to -20	-0.2	-0.1	0.2	0.4	0.7	1.0	1.1	1.2	1.6	2.1	3.4	3.5	5.1	7.1	-	-
-60 to -40 (ref.)	-0.1	0.0	0.3	0.5	0.8	1.1	1.2	1.2	1.6	2.2	3.3	3.4	4.9	6.7	-	-
-70 to -60 (ref.)	0.2	0.2	0.5	0.7	1.0	1.2	1.3	1.4	1.8	2.3	3.3	3.5	4.9	6.5	-	-

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	-0.9	-0.8	-0.4	0.0	0.3	0.7	0.8	0.9	1.5	2.3	4.0	4.2	6.6	9.6	-	-
60 to 80	-1.1	-1.0	-0.6	-0.3	0.0	0.4	0.5	0.6	1.2	1.9	3.5	3.8	6.0	8.9	-	-
40 to 60	-1.4	-1.3	-1.0	-0.7	-0.4	0.0	0.1	0.2	0.8	1.4	3.0	3.2	5.3	8.0	-	-
20 to 40	-1.8	-1.6	-1.3	-1.0	-0.7	-0.4	-0.3	-0.2	0.3	1.0	2.4	2.6	4.6	7.1	-	-
0 to 20	-2.1	-2.0	-1.7	-1.4	-1.1	-0.8	-0.7	-0.6	-0.1	0.5	1.8	2.0	3.9	6.2	-	-
-20 to 0	-2.4	-2.3	-2.0	-1.8	-1.5	-1.2	-1.1	-1.0	-0.5	0.0	1.3	1.5	3.2	5.3	-	-
-40 to -20	-2.7	-2.6	-2.3	-2.1	-1.9	-1.6	-1.5	-1.4	-1.0	-0.5	0.7	0.9	2.5	4.4	-	-
-60 to -40	-3.0	-2.9	-2.7	-2.5	-2.2	-2.0	-1.9	-1.8	-1.4	-0.9	0.2	0.3	1.7	3.5	-	-
-70 to -60	-3.3	-3.2	-2.9	-2.7	-2.5	-2.3	-2.2	-2.1	-1.7	-1.3	-0.3	-0.1	1.2	2.8	-	-

Coef. disp. form. (frac. eq.) (ref.)	
P1	1.07493029E-01
Q1	8.15532458E+01
P2	2.93223861E-02
Q2	6.08031611E-02
P3	4.20201675E-01
Q3	8.51713693E-03

Fitting error of disp. form. σ [1E-6]		
	Visible	Infrared
Power ser. eq.	1.0	4.8
Frac. eq. (ref.)	2.9	9.4

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

2022-7-1	StP, AP, SP
2019-4-1	Transmittance
2017-4-1	1st edition