Glass Type E-LASFH17

Code(d) 1255
Code(e) 10253

nd	2.00069	νd	25.45	nF-nC	0.039313
ne	2.00996	νe	25.25	nF'-nC'	0.039991

Refractive Indeces

	λ (μm)	
nA'	0.768195	1.97740
nr	0.706519	1.98329
nC	0.656273	1.98941
nC'	0.643847	1.99116
nHe-Ne	0.63280	1.99281
nD	0.589294	2.00035
nd	0.587562	2.00069
ne	0.546074	2.00996
nF	0.486133	2.02872
nF'	0.479992	2.03115
ng	0.435835	2.05285
nh	0.404656	2.07466

Abbe Nunber

νd	25.45
νe	25.25
νg	19.18

Constants of Dispersion Formula

A_0	3.81220648E+00
A_1	-1.71101271E-02
A_2	5.75348609E-02
A_3	3.95166224E-03
A_4	-2.47712063E-04
A_5	3.77234212E-05
A_6	1.03512503E-04

Mechanical Properties

Specific Gravity	SG	4.68
Bubble Quality Group B		1

Partial Dispersions

nd-nC	0.011283
ne-nd	0.009266
ng-nd	0.052163
ng-nF	0.024133
nd-nC'	0.009530
nF'-nd	0.030461

Relative Partial Dispersions

P d,C	0.2870
P e,d	0.2357
P g,F	0.6139
P'd,C'	0.2383
P'e,d	0.2317
P'g,F'	0.5427

Deviation of Relative Partial Dispersions ΔP from"Normal"

ΔP g,d	0.0150
ΔP g,F	0.0131

Thermal Properties

Transformation Temperature	Tg (°C)	680
Yield Point	At (°C)	723
Expansion Coefficients	α (°C)	81

Chemical Properties

Water Resistance(Powder)WR(P	1
Acid Resistance(powder)AR(P)	1

Mechanical Properties

Knoop Hardness	Hk	605(6)
Abrasion	A	86
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

$λ_{80}/λ_5$	
$λ_{70}/λ_5$	45/38

Internal Transmittance

$λ_{80}/λ_5$	426/376
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	
350	
360	
370	0.01
380	0.11
390	0.32
400	0.52
420	0.76
440	0.87
460	0.916
480	0.943
500	0.959
550	0.981
600	0.986
650	0.988
700	0.991
800	0.997
900	0.994
1000	0.992
1200	0.997
1400	0.997
1600	0.991
1800	0.985
2000	0.977
2200	0.953
2400	0.87

※本データは、改良等のため予告なく変更される場合があります。