Glass Type **F2**
Special Order

Code(d) 620363
Code(e) 624361

n_d	1.62004	ν_d	36.33	$n_F - n_C$	0.017066
n_e	1.62409	ν_e	36.07	$n_{F'} - n_{C'}$	0.017302

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.60960
n_r	0.706519	1.61227
n_C	0.656273	1.61503
$n_{C'}$	0.643847	1.61581
n_{He-Ne}	0.63280	1.61655
n_D	0.589294	1.61989
n_d	0.587562	1.62004
n_e	0.546074	1.62409
n_F	0.486133	1.63210
$n_{F'}$	0.479992	1.63312
n_g	0.435835	1.64205
n_h	0.404656	1.65070

Abbe Number

ν_d	36.33
ν_e	36.07
ν_g	28.17

Constants of Dispersion Formula

A_0	2.54500231E+00
A_1	-1.33739584E-03
A_2	2.80115116E-02
A_3	-5.41702056E-04
A_4	1.50175374E-04
A_5	-3.61707105E-06
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	3.61
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.005011
$n_e - n_d$	0.004046
$n_g - n_d$	0.022012
$n_g - n_F$	0.009957
$n_d - n_{C'}$	0.004226
$n_{F'} - n_d$	0.013076

Relative Partial Dispersions

$P_{d,C}$	0.2936
$P_{e,d}$	0.2371
$P_{g,F}$	0.5834
$P'_{d,C'}$	0.2442
$P'_{e,d}$	0.2338
$P'_{g,F'}$	0.5165

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0000
$\Delta P_{g,F}$	0.0000

Thermal Properties

Transformation Temperature	Tg	(°C)	436
Yield Point	At	(°C)	477
Expansion Coefficients	α	(°C)	96

Chemical Properties

Water Resistance (Powder) WR(P)	2
Acid Resistance (Powder) AR(P)	2
Acid Resistance (Surface) AR(S)	1

Mechanical Properties

Knoop Hardness	Hk	413(4)
Abrasion	A	174
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	36/32
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	345/322
λ (nm)	τ 10mm
280	
290	
300	
310	
320	0.01
330	0.30
340	0.71
350	0.900
360	0.945
370	0.970
380	0.980
390	0.988
400	0.991
420	0.995
440	0.996
460	0.999
480	0.999
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	
900	
1000	
1200	
1400	
1600	
1800	
2000	
2200	
2400	

Glass Type **F5**
Special Order

Code(d) 603381
Code(e) 607378

n_d	1.60342	ν_d	38.11	$n_F - n_C$	0.015834
n_e	1.60717	ν_e	37.85	$n_{F'} - n_{C'}$	0.016042

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.59354
n_r	0.706519	1.59615
n_C	0.656273	1.59875
$n_{C'}$	0.643847	1.59949
n_{He-Ne}	0.63280	1.60018
n_D	0.589294	1.60328
n_d	0.587562	1.60342
n_e	0.546074	1.60717
n_F	0.486133	1.61459
$n_{F'}$	0.479992	1.61553
n_g	0.435835	1.62376
n_h	0.404656	1.63172

Abbe Number

ν_d	38.11
ν_e	37.85
ν_g	29.66

Constants of Dispersion Formula

A_0	2.52772484E+00
A_1	-2.38190802E-02
A_2	1.02050370E-02
A_3	3.48057562E-03
A_4	-3.60361530E-04
A_5	2.05731116E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	3.45
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.004667
$n_e - n_d$	0.003751
$n_g - n_d$	0.020345
$n_g - n_F$	0.009178
$n_d - n_{C'}$	0.003932
$n_{F'} - n_d$	0.012110

Relative Partial Dispersions

$P_{d,C}$	0.2947
$P_{e,d}$	0.2369
$P_{g,F}$	0.5796
$P'_{d,C'}$	0.2451
$P'_{e,d}$	0.2338
$P'_{g,F'}$	0.5133

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	-0.0011
$\Delta P_{g,F}$	-0.0008

Thermal Properties

Transformation Temperature	Tg	(°C)	435
Yield Point	At	(°C)	474
Expansion Coefficients	α	(°C)	96

Chemical Properties

Water Resistance (Powder) WR(P)	2
Acid Resistance (Powder) AR(P)	1
Acid Resistance (Surface) AR(S)	1

Mechanical Properties

Knoop Hardness	Hk	386(4)
Abrasion	A	167
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	35/32
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	341/318
λ (nm)	τ 10mm
280	
290	
300	
310	
320	0.11
330	0.55
340	0.83
350	0.936
360	0.966
370	0.981
380	0.985
390	0.990
400	0.995
420	0.996
440	0.997
460	0.998
480	0.999
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	
900	
1000	
1200	
1400	
1600	
1800	
2000	
2200	
2400	

Glass Type **SF5**
Special Order

Code(d) 673322
Code(e) 678319

n_d	1.67270	ν_d	32.15	$n_F - n_C$	0.020921
n_e	1.67765	ν_e	31.92	$n_{F'} - n_{C'}$	0.021232

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.65994
n_r	0.706519	1.66325
n_C	0.656273	1.66661
$n_{C'}$	0.643847	1.66756
n_{He-Ne}	0.63280	1.66846
n_D	0.589294	1.67252
n_d	0.587562	1.67270
n_e	0.546074	1.67765
n_F	0.486133	1.68753
$n_{F'}$	0.479992	1.68879
n_g	0.435835	1.69991
n_h	0.404656	1.71076

Abbe Number

ν_d	32.15
ν_e	31.92
ν_g	24.72

Constants of Dispersion Formula

A_0	2.73599051E+00
A_1	-2.72414957E-02
A_2	1.39469595E-02
A_3	4.88372822E-03
A_4	-4.99741390E-04
A_5	2.99608896E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	4.09
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.006092
$n_e - n_d$	0.004948
$n_g - n_d$	0.027209
$n_g - n_F$	0.012380
$n_d - n_{C'}$	0.005138
$n_{F'} - n_d$	0.016094

Relative Partial Dispersions

$P_{d,C}$	0.2912
$P_{e,d}$	0.2365
$P_{g,F}$	0.5917
$P'_{d,C'}$	0.2420
$P'_{e,d}$	0.2330
$P'_{g,F'}$	0.5235

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0019
$\Delta P_{g,F}$	0.0013

Thermal Properties

Transformation Temperature	Tg	(°C)	441
Yield Point	At	(°C)	480
Expansion Coefficients	α	(°C)	88

Chemical Properties

Water Resistance (Powder) WR(P)	2
Acid Resistance (Powder) AR(P)	2
Acid Resistance (Surface) AR(S)	3

Mechanical Properties

Knoop Hardness	Hk	373(4)
Abrasion	A	179
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	38/34
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	364/334
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	0.15
350	0.55
360	0.81
370	0.909
380	0.958
390	0.983
400	0.998
420	0.999
440	0.999
460	0.999
480	0.999
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	0.998
900	0.999
1000	0.999
1200	0.999
1400	0.999
1600	0.999
1800	0.999
2000	0.990
2200	0.964
2400	0.951

Glass Type **SF8**
Special Order

Code(d) 689312
Code(e) 694309

n_d	1.68893	ν_d	31.15	$n_F - n_C$	0.022120
n_e	1.69416	ν_e	30.91	$n_{F'} - n_{C'}$	0.022454

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.67543
n_r	0.706519	1.67895
n_C	0.656273	1.68250
$n_{C'}$	0.643847	1.68351
n_{He-Ne}	0.63280	1.68445
n_D	0.589294	1.68874
n_d	0.587562	1.68893
n_e	0.546074	1.69416
n_F	0.486133	1.70462
$n_{F'}$	0.479992	1.70596
n_g	0.435835	1.71775
n_h	0.404656	1.72931

Abbe Number

ν_d	31.15
ν_e	30.91
ν_g	23.90

Constants of Dispersion Formula

A_0	2.79885778E+00
A_1	-3.71809306E-02
A_2	7.63019059E-03
A_3	7.23169098E-03
A_4	-8.07384722E-04
A_5	4.69666667E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	4.22
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.006430
$n_e - n_d$	0.005229
$n_g - n_d$	0.028820
$n_g - n_F$	0.013130
$n_d - n_{C'}$	0.005424
$n_{F'} - n_d$	0.017030

Relative Partial Dispersions

$P_{d,C}$	0.2907
$P_{e,d}$	0.2364
$P_{g,F}$	0.5936
$P'_{d,C'}$	0.2416
$P'_{e,d}$	0.2329
$P'_{g,F'}$	0.5251

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0021
$\Delta P_{g,F}$	0.0015

Thermal Properties

Transformation Temperature	Tg	(°C)	429
Yield Point	At	(°C)	470
Expansion Coefficients	α	(°C)	93

Chemical Properties

Water Resistance (Powder) WR(P)	2
Acid Resistance (Powder) AR(P)	2
Acid Resistance (Surface) AR(S)	3

Mechanical Properties

Knoop Hardness	Hk	387(4)
Abrasion	A	185
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	38/34
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	361/335
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	0.11
350	0.51
360	0.79
370	0.908
380	0.955
390	0.980
400	0.993
420	0.999
440	0.999
460	0.999
480	0.999
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	0.998
900	0.999
1000	0.999
1200	0.999
1400	0.999
1600	0.999
1800	0.995
2000	0.992
2200	0.970
2400	0.962

Glass Type **SF13**

Special Order

Code(d) 741276

Code(e) 747274

n_d	1.74077	ν_d	27.64	$n_F - n_C$	0.026796
n_e	1.74710	ν_e	27.42	$n_{F'} - n_{C'}$	0.027247

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.72492
n_r	0.706519	1.72891
n_C	0.656273	1.73307
$n_{C'}$	0.643847	1.73426
n_{He-Ne}	0.63280	1.73539
n_D	0.589294	1.74054
n_d	0.587562	1.74077
n_e	0.546074	1.74710
n_F	0.486133	1.75986
$n_{F'}$	0.479992	1.76151
n_g	0.435835	1.77614
n_h	0.404656	1.79076

Abbe Number

ν_d	27.64
ν_e	27.42
ν_g	20.95

Constants of Dispersion Formula

A_0	2.92262988E+00
A_1	-1.15001781E-02
A_2	2.87583512E-02
A_3	4.47285534E-03
A_4	-4.97300597E-04
A_5	4.08937236E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	4.37
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.007703
$n_e - n_d$	0.006329
$n_g - n_d$	0.035365
$n_g - n_F$	0.016272
$n_d - n_{C'}$	0.006508
$n_{F'} - n_d$	0.020739

Relative Partial Dispersions

$P_{d,C}$	0.2875
$P_{e,d}$	0.2362
$P_{g,F}$	0.6073
$P'_{d,C'}$	0.2389
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5368

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0115
$\Delta P_{g,F}$	0.0093

Thermal Properties

Transformation Temperature	Tg	(°C)	471
Yield Point	At	(°C)	509
Expansion Coefficients	α	(°C)	81

Chemical Properties

Water Resistance (Powder) WR(P)	2
Acid Resistance (Powder) AR(P)	1
Acid Resistance (Surface) AR(S)	1

Mechanical Properties

Knoop Hardness	Hk	395(4)
Abrasion	A	184
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	42/38
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	402/374
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	
350	
360	
370	
380	0.09
390	0.41
400	0.71
420	0.942
440	0.992
460	0.999
480	0.999
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	0.999
900	0.999
1000	0.999
1200	0.999
1400	0.999
1600	0.999
1800	0.995
2000	0.987
2200	0.958
2400	0.946

Glass Type **SF03**
Special Order

Code(d) 847239
Code(e) 855237

n_d	1.84666	ν_d	23.88	$n_F - n_C$	0.035449
n_e	1.85501	ν_e	23.70	$n_{F'} - n_{C'}$	0.036079

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.82581
n_r	0.706519	1.83106
n_C	0.656273	1.83653
$n_{C'}$	0.643847	1.83810
n_{He-Ne}	0.63280	1.83958
n_D	0.589294	1.84635
n_d	0.587562	1.84666
n_e	0.546074	1.85501
n_F	0.486133	1.87198
$n_{F'}$	0.479992	1.87418
n_g	0.435835	1.89382
n_h	0.404656	1.91352

Abbe Number

ν_d	23.88
ν_e	23.70
ν_g	17.95

Constants of Dispersion Formula

A_0	3.26133538E+00
A_1	-1.83279183E-02
A_2	4.15516996E-02
A_3	4.94908982E-03
A_4	-3.88454792E-04
A_5	3.83701444E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	5.52
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.010128
$n_e - n_d$	0.008353
$n_g - n_d$	0.047162
$n_g - n_F$	0.021841
$n_d - n_{C'}$	0.008558
$n_{F'} - n_d$	0.027521

Relative Partial Dispersions

$P_{d,C}$	0.2857
$P_{e,d}$	0.2356
$P_{g,F}$	0.6161
$P'_{d,C'}$	0.2372
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5444

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0141
$\Delta P_{g,F}$	0.0118

Thermal Properties

Transformation Temperature	Tg	(°C)	419
Yield Point	At	(°C)	451
Expansion Coefficients	α	(°C)	92

Chemical Properties

Water Resistance (Powder) WR(P)	5
Acid Resistance (Powder) AR(P)	4
Acid Resistance (Surface) AR(S)	5b

Mechanical Properties

Knoop Hardness	Hk	325(3)
Abrasion	A	299
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	44/37
λ_{70} / λ_5	40/37

Internal Transmittance

λ_{80} / λ_5	393/363
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	
350	
360	0.01
370	0.22
380	0.56
390	0.76
400	0.86
420	0.945
440	0.973
460	0.985
480	0.991
500	0.996
550	0.999
600	0.999
650	0.999
700	0.999
800	0.999
900	0.999
1000	0.999
1200	0.999
1400	0.999
1600	0.999
1800	0.983
2000	0.980
2200	0.961
2400	0.940

Glass Type **LAF7**

Special Order

Code(d) 750352

Code(e) 755350

n_d	1.74950	ν_d	35.19	$n_F - n_C$	0.021301
n_e	1.75456	ν_e	34.95	$n_{F'} - n_{C'}$	0.021592

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.73671
n_r	0.706519	1.73984
n_C	0.656273	1.74323
$n_{C'}$	0.643847	1.74421
n_{He-Ne}	0.63280	1.74513
n_D	0.589294	1.74931
n_d	0.587562	1.74950
n_e	0.546074	1.75456
n_F	0.486133	1.76453
$n_{F'}$	0.479992	1.76580
n_g	0.435835	1.77694
n_h	0.404656	1.78769

Abbe Number

ν_d	35.19
ν_e	34.95
ν_g	27.32

Constants of Dispersion Formula

A_0	2.87163801E+00
A_1	5.58631865E-02
A_2	8.26011335E-02
A_3	-1.25713266E-02
A_4	1.71414005E-03
A_5	-7.97721681E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	4.41
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.006271
$n_e - n_d$	0.005059
$n_g - n_d$	0.027439
$n_g - n_F$	0.012409
$n_d - n_{C'}$	0.005293
$n_{F'} - n_d$	0.016299

Relative Partial Dispersions

$P_{d,C}$	0.2944
$P_{e,d}$	0.2375
$P_{g,F}$	0.5826
$P'_{d,C'}$	0.2451
$P'_{e,d}$	0.2343
$P'_{g,F'}$	0.5159

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	-0.0041
$\Delta P_{g,F}$	-0.0027

Thermal Properties

Transformation Temperature	Tg	(°C)	503
Yield Point	At	(°C)	540
Expansion Coefficients	α	(°C)	63

Chemical Properties

Water Resistance (Powder) WR(P)	1
Acid Resistance (Powder) AR(P)	4
Acid Resistance (Surface) AR(S)	5b

Mechanical Properties

Knoop Hardness	Hk	471(5)
Abrasion	A	176
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	40/34
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	372/336
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	0.09
350	0.34
360	0.59
370	0.74
380	0.84
390	0.900
400	0.935
420	0.968
440	0.980
460	0.987
480	0.991
500	0.993
550	0.996
600	0.994
650	0.996
700	0.999
800	0.999
900	0.999
1000	0.999
1200	0.999
1400	0.993
1600	0.994
1800	0.978
2000	0.957
2200	0.86
2400	0.67

Glass Type **LAF9**

Special Order

Code(d) 795286

Code(e) 802284

n_d	1.79504	ν_d	28.56	$n_F - n_C$	0.027833
n_e	1.80162	ν_e	28.35	$n_{F'} - n_{C'}$	0.028275

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.77835
n_r	0.706519	1.78259
n_C	0.656273	1.78698
$n_{C'}$	0.643847	1.78824
n_{He-Ne}	0.63280	1.78942
n_D	0.589294	1.79480
n_d	0.587562	1.79504
n_e	0.546074	1.80162
n_F	0.486133	1.81482
$n_{F'}$	0.479992	1.81651
n_g	0.435835	1.83152
n_h	0.404656	1.84630

Abbe Number

ν_d	28.56
ν_e	28.35
ν_g	21.80

Constants of Dispersion Formula

A_0	3.09792113E+00
A_1	-1.11246632E-02
A_2	3.88244968E-02
A_3	1.94918388E-03
A_4	-6.84019791E-05
A_5	1.33030530E-05
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	4.97
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.008056
$n_e - n_d$	0.006577
$n_g - n_d$	0.036478
$n_g - n_F$	0.016701
$n_d - n_{C'}$	0.006801
$n_{F'} - n_d$	0.021474

Relative Partial Dispersions

$P_{d,C}$	0.2894
$P_{e,d}$	0.2363
$P_{g,F}$	0.6000
$P'_{d,C'}$	0.2405
$P'_{e,d}$	0.2326
$P'_{g,F'}$	0.5306

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0043
$\Delta P_{g,F}$	0.0036

Thermal Properties

Transformation Temperature	Tg	(°C)	488
Yield Point	At	(°C)	529
Expansion Coefficients	α	(°C)	75

Chemical Properties

Water Resistance (Powder) WR(P)	2
Acid Resistance (Powder) AR(P)	3
Acid Resistance (Surface) AR(S)	5b

Mechanical Properties

Knoop Hardness	Hk	426(4)
Abrasion	A	212
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	43/36
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	395/363
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	
350	
360	0.02
370	0.22
380	0.53
390	0.74
400	0.85
420	0.946
440	0.978
460	0.990
480	0.998
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	0.999
900	0.999
1000	0.999
1200	0.999
1400	0.999
1600	0.999
1800	0.992
2000	0.985
2200	0.952
2400	0.899

Glass Type **LAF11**

Special Order

Code(d) 757317

Code(e) 763315

n_d	1.75692	ν_d	31.70	$n_F - n_C$	0.023874
n_e	1.76259	ν_e	31.46	$n_{F'} - n_{C'}$	0.024237

Refractive Indeces

	λ (μm)	
$n_{A'}$	0.768195	1.74312
n_r	0.706519	1.74631
n_C	0.656273	1.74996
$n_{C'}$	0.643847	1.75103
n_{He-Ne}	0.63280	1.75205
n_D	0.589294	1.75671
n_d	0.587562	1.75692
n_e	0.546074	1.76259
n_F	0.486133	1.77383
$n_{F'}$	0.479992	1.77527
n_g	0.435835	1.78795
n_h	0.404656	1.80027

Abbe Number

ν_d	31.70
ν_e	31.46
ν_g	24.39

Constants of Dispersion Formula

A_0	2.80963092E+00
A_1	1.14276691E-01
A_2	1.25106388E-01
A_3	-2.21708952E-02
A_4	2.91617555E-03
A_5	-1.35685507E-04
A_6	0.00000000E+00

Other Properties

Specific Gravity	SG	4.58
Bubble Quality Group	B	1

Partial Dispersions

$n_d - n_C$	0.006959
$n_e - n_d$	0.005674
$n_g - n_d$	0.031028
$n_g - n_F$	0.014113
$n_d - n_{C'}$	0.005885
$n_{F'} - n_d$	0.018352

Relative Partial Dispersions

$P_{d,C}$	0.2915
$P_{e,d}$	0.2377
$P_{g,F}$	0.5911
$P'_{d,C'}$	0.2428
$P'_{e,d}$	0.2341
$P'_{g,F'}$	0.5230

Deviation of Relative Partial Dispersions ⊿P from "Normal"

$\Delta P_{g,d}$	0.0000
$\Delta P_{g,F}$	-0.0001

Thermal Properties

Transformation Temperature	Tg	(°C)	494
Yield Point	At	(°C)	526
Expansion Coefficients	α	(°C)	64

Chemical Properties

Water Resistance (Powder) WR(P)	1
Acid Resistance (Powder) AR(P)	3
Acid Resistance (Surface) AR(S)	5b

Mechanical Properties

Knoop Hardness	Hk	426(4)
Abrasion	A	216
Young's Modulus	E	
Rigidity Modulus	G	
Poisson's Ratio	ν	
Photoelastic Constant	β	

Coloring

λ_{80} / λ_5	41/35
λ_{70} / λ_5	

Internal Transmittance

λ_{80} / λ_5	387/344
λ (nm)	τ 10mm
280	
290	
300	
310	
320	
330	
340	
350	
360	0.12
370	0.45
380	0.73
390	0.87
400	0.939
420	0.988
440	0.999
460	0.999
480	0.999
500	0.999
550	0.999
600	0.999
650	0.999
700	0.999
800	0.999
900	0.999
1000	0.999
1200	0.999
1400	0.999
1600	0.999
1800	0.999
2000	0.984
2200	0.900
2400	0.78