

DESCRIPTION

Thicknesses	028", .043"
Size	up to 14" x 18"
Forms Available	Fusion drawn sheet
Principal Uses	Substrates for Active Matrix Flat Panel Displays

PROPERTIES

Mechanical

	Metric	English
Density (20°C, 68°F)	2.54 g/cm ³	158.6 lb/ft ³
Young's Modulus	7.14 x 10 ³ kg/mm ²	10.15 x 10 ⁶ psi
Poisson's Ratio	0.22	
Shear Modulus	2.88 x 10 ³ kg/mm ²	4.1 x 10 ⁶ psi

Viscosity

Working Point (10⁴ poises)	1312°C	2394°F
Softening Point (10^{7.6} poises)	975°C	1787°F
Annealing Point (10¹³ poises)	721°C	1330°F
Strain Point (10^{14.5} poises)	666°C	1231°F

Thermal Expansion

Expansion	37.6 x 10 ⁻⁷ /°C (0-300°C)	21 x 10 ⁻⁷ /°F (32-572°F)
Room Temperature to Setting Point	42.0 x 10 ⁻⁷ /°C (25-671°C)	23.3 x 10 ⁻⁷ /°F (77-1240°F)

Optical

Wavelength	435.8nm	480.0nm	486.1nm	546.1nm	589.3nm	643.8nm	656.3nm
Index of Refraction	1.5290	1.5250	1.5244	1.5207	1.5186	1.5166	1.5160

Birefringence Constant 333 nm/cm
kg/mm²

Electrical

Log₁₀ Volume Resistivity: (250°C, 482°F) – 13.5; (350°C, 662°F) – 11.4; (500°C, 932°F) – 9.3

