EASTMAN

Product Data Sheet

Eastman TiGlaze ST Copolyester

Application / Uses

- Architectural glazing
- Lighting
- Skylights

Product Description

Eastman TiGlaze ST Copolyester is copolyester engineered for the Architectural Glazing industry. *Eastman TiGlaze* ST offers a combination of strength and fabrication performance for glazing applications such as skylights, vaults, shelters and building entries.

**Eastman TiGlaze* is only available in the United States.

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Typical Properties

Thickness of Sheet Tested		3 mm (0.118 in.)
Intrinsic Viscosity	EMN-A-AC-G-V-1	0.73

Density	D 1505	1.23 g/cm^3
Water Absorption, 24 h immersion	D 570	0.19%

Optical Properties		
Haze	D 1003	0.5%
Gloss @ 60°	D 2457	150
Total Transmittance	D 1003	91%
Yellowness Index	E 313	0.81
Color		
L*	E 313	95.74
a*		-0.15
b*		0.34

Thermal Properties		
Deflection Temperature		
@ 1.82 MPa (264 psi)	D 648	73°C (163°F)
@ 0.455 MPa (66 psi)		77°C (171°F)
Vicat Softening Temperature	D 1525	86°C (187°F)
Coefficient of Linear Thermal Expansion	D 696	7.62 x 10-5 /°C (mm/mm·°C) (4.26 x 10-5 /°F (in./in.·°F))
UL Flammability Classification	UL 94	V-2

Mechanical Properties		
Tensile Strength @ Yield	D 638	48 MPa (6900 psi)
Tensile Strength @ Break	D 638	53 MPa (7700 psi)
Elongation @ Yield	D 638	5%
Elongation @ Break	D 638	340%
Tensile Modulus	D 638	1800 MPa (2.6 x 10^5 psi)

Flexural Strength @ 5% strain	D 790	71 MPa (10300 psi)
Flexural Modulus	D 790	2000 MPa (2.9 x 10^5 psi)
Impact Strength, Unnotched		
@ 23°C (73°F)	D 4812	NB
@ -30°C (-22°F)		NB
Izod Impact Strength, Notched [d]		
@ 0°C (32°F)		113 J/m (2.2 ft·lbf/in.)
@ 23°C (73°F)	D 256	NB
@ -30°C (-22°F)		83 J/m (1.6 ft·lbf/in.)
Impact Resistance (Puncture), Energy @ Max. Load		
@ 23°C (73°F)	D 3763	41 J (29 ft·lbf)
@ 0°C (32°F)		42 J (30 ft·lbf)
@ -30°C (-22°F)		52 J (36 ft·lbf)
Rockwell Hardness, R Scale	D 785	107

Electrical Properties		
Arc Resistance	D 495	130 sec
Static Decay Rate	D 4470	Failed to Discharge
Surface Resistivity	D 257	10^{17} ohms/square
Volume Resistivity	D 257	10^{16} ohm·cm

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.