

Eastman TiGlaze SV Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

Material Notes:

TiGLAZE SV copolyester is a specialty copolyester for the architectural glazing industry, designed to provide a unique balance of toughness, stiffness and material value. The material has a CC1 Light Transmitting Plastic Rating and, in sheet form, will pass UL972 for Burglary Resistant Glazing. Sheet produced from TiGLAZE SV copolyester is coextruded with a UV layer to offer protection from damaging UV rays. TiGLAZE SV copolyester is used in skylights, barrel vaults and flat glazing applications. The material failed to discharge under a Static Decay Rate test ASTM D4470. Applications/Uses Architectural glazing Flat and sloped glazing Kiosks Skylights Waiting shelters

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-TiGlaze-SV-Copolyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	24h Immersion; ASTM D570
Thickness	3000 microns	118 mil	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	156 %	156 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.340 J/cm @Temperature -30.0 °C	0.637 ft-lb/in @Temperature -22.0 °F	ASTM D256
	>= 0.540 J/cm @Temperature 0.000 °C	>= 1.01 ft-lb/in @Temperature 32.0 °F	ASTM D256
	0.600 J/cm @Temperature 23.0 °C	1.12 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ASTM D4812
Puncture Energy	33.0 J	24.3 ft-lb	Puncture Resistance @Max Load, 23°C; ASTM D3763
	35.0 J	25.8 ft-lb	Puncture Resistance @Max Load, -30°C; ASTM D3763
	39.0 J	28.8 ft-lb	Puncture Resistance @Max Load, -10°C; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 µm/m-°C	3.89 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ASTM D648
Vicat Softening Point	80.0 °C	176 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.8 %	2.8 %	ASTM D1003
Gloss	148 %	148 %	at 60°; ASTM D2457
Transmission, Visible	88 %	88 %	Total Transmittance; ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+17 ohm	1.00e+17 ohm	ASTM D257
Arc Resistance	124 sec	124 sec	ASTM D495

Descriptive Properties	Value	Comments
Color, CIE a*	-0.1	VGAS-A-AN-G-RS-001
Color, CIE b*	1.92	VGAS-A-AN-G-RS-001
Color, CIE L*	93.3	VGAS-A-AN-G-RS-001

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