TiGlaze™ ST

Copolyester

Eastman Chemical Company

Message:

Eastman TiGlaze™ copolyester was designed to respond to the needs of users, specifiers, and manufacturers in the Architectural Glazing industry. It offers a combination of strength, ease of fabrication, and flexibility in design for glazing applications such as skylights, vaults, shelters and building entries. Eastman is introducing the joint offering for sale of Eastman TiGlaze ST™ copolyester and Eastman TiGlaze UV™ copolyester (which, when sold together, Eastman refers to as its Eastman TiGlaze ST™ copolyester system). Eastman also offers TiGlaze ST™ with Spectar UV™. This sheet has received a notice of acceptance by the Miami-Dade County, Florida Building Code Compliance Office (Miami-Dade County, Florida NOA 08.0423.19, Expiration Date: 07/03/2013) for use in skylights.
*Eastman TiGlaze™ is only available in the United States.
This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.
The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman Copolyesters, visit www.greenguard.org. Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.
This product has been CRADLE TO CRADLE CERTIFIED(cm) Silver.
The CRADLE TO CRADLE CERTIFIED(cm) Mark is a registered certification mark used under license through McDonough Braungart Design Chemistry (MBDC). MBDC is a global sustainability consulting and product certification firm. The CRADLE TO CRADLE® framework moves beyond the traditional goal of reducing the negative impacts of commerce ('eco-efficiency'), to a new paradigm of increasing its positive impacts ('eco-effectiveness'). At its core, Cradle to Cradle design perceives the safe and productive processes of nature's 'biological metabolism' as a model for developing a 'technical metabolism' flow of industrial materials. Product components can be designed for continuous recovery and reutilization as biological and technical nutrients within these metabolisms. For more information about MBDC and to obtain printable certificates for Eastman Copolyesters, visit www.mbdc.com. Choose Eastman Chemical Company under Company Name in C2C Certified products to display a list of our products.

General Information	
UL YellowCard	E118289-101981970
Additive	UV Stabilizer
Features	Durable Good Flexibility High Strength
Uses	Glazing Windows & Doors
Agency Ratings	UL 972
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ASTM D1505
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Color			ASTM E313
a : 3.00 mm	-0.15		
b : 3.00 mm	0.34		
L : 3.00 mm	96		
Intrinsic Viscosity (23°C) [1]	0.73		Internal Method
Static Decay (23°C)	Failed to Discharge		ASTM D4470

Sheet Thickness - Tested	3.00	mm	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, 23°C)	107		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	48.0	MPa	
Break, 23°C	53.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	
Break, 23°C	340	%	
Flexural Modulus (23°C)	2000	MPa	ASTM D790
Flexural Strength (5.0% Strain,23°C)	71.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C	83	J/m	
0°C [2]	110	J/m	
23°C	No Break		
Unnotched Izod Impact			ASTM D4812
-30°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-30°C, Energy at Peak Load	52.0	J	
0°C, Energy at Peak Load	42.0	J	
23°C, Energy at Peak Load	41.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	77.0	°C	
1.8 MPa, Unannealed	73.0	°C	
Vicat Softening Temperature	86.0	°C	ASTM D1525
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+17	ohms	ASTM D257
Volume Resistivity (23°C)	1.0E+16	ohms·cm	ASTM D257
Arc Resistance	130	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-2		UL 94
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, 3000 µm)	150		ASTM D2457
Transmittance (Total, 3000 µm)	91.0	%	ASTM D1003
Haze (3000 µm)	0.50	%	ASTM D1003
Yellowness Index (3.00 mm)	0.81	YI	ASTM D1925
NOTE			

1.	EMN-A-AC-G-V-1
2.	80% Complete Break

Recommended distributors for this material

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