

Polystrand ThermoPro™ IE7010 Unitape Unidirectional Polypropylene-Glass Composite

Category : Polymer , Tape , Thermoplastic , Polypropylene (PP)

Material Notes:

Fiber Orientation is 0°. Polystrand ThermoPro™ combines continuous E-Glass (ThermoPro-E™) structural reinforcing fibers in either a polyethylene or polypropylene proprietary thermoplastic polymer to form ribbons or tapes. These material forms can be subsequently molded by high temperature processing to create end-use applications including pipe, tanks, liners, automotive, architectural, and a host of other structural industrial and commercial products. Polystrand ThermoPro™ is the result of a quest of more than 15-years to develop structural thermoplastic composites for the international industrial and commercial markets. Information provided by Polystrand.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polystrand-ThermoPro-IE7010-Unitape-Unidirectional-Polypropylene-Glass-Composite.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in³	
Filler Content	70 %	70 %	E-Glass; ASTM D2584
Water Absorption	0.70 %	0.70 %	ASTM D570
Thickness	254 microns	10.0 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	610 MPa	88500 psi	0°; ASTM D3039
Elongation at Break	1.8 %	1.8 %	0°; ASTM D3039
Tensile Modulus	33.1 GPa	4800 ksi	0°; ASTM D3039
Shear Modulus	1.61 GPa	234 ksi	In-Plane G12; ASTM D5379
Shear Strength	12.1 MPa	1750 psi	In-Plane S12; ASTM D5379
	32.4 MPa	4700 psi	Interlaminar S23; ASTM D2344

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 µm/m-°C @Temperature 20.0 °C	5.00 µin/in-°F @Temperature 68.0 °F	Longitudinal; ASTM E228
CTE, linear, Transverse to Flow	72.5 µm/m-°C @Temperature 20.0 °C	40.3 µin/in-°F @Temperature 68.0 °F	ASTM E228
Glass Transition Temp, Tg	165 °C	329 °F	ASTM D3418

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