

Polystrand ThermoPro™ IE6010 Unitape Unidirectional Polypropylene-Glass Composite

Category : Polymer , Tape , Thermoplastic , Polypropylene (PP) , Polypropylene with 60% Glass Fiber Filler

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-IE6010-Unitape-Unidirectional-Polypropylene-Glass-Composite.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	
Filler Content	60 %	60 %	E-Glass; ASTM D2584
Water Absorption	0.70 %	0.70 %	ASTM D570
Thickness	330 microns	13.0 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	280 MPa	40600 psi	0°; ASTM D3039
Elongation at Break	1.1 %	1.1 %	0°; ASTM D3039
Tensile Modulus	25.1 GPa	3640 ksi	0°; ASTM D3039
Flexural Strength	420 MPa	60900 psi	0°; measured on 0.1" panel molded from tape; ASTM D790
Flexural Modulus	24.1 GPa	3500 ksi	0°; measured on 0.1" panel molded from tape; ASTM D790
Shear Modulus	1.02 GPa	148 ksi	In-Plane G12; ASTM D5379
Shear Strength	24.8 MPa	3600 psi	In-Plane S12; ASTM D5379
	25.5 MPa	3700 psi	Interlaminar S23; ASTM D2344

Thermal Properties	Metric	English	Comments
CTE, linear	9.70 µm/m-°C @Temperature 20.0 °C	5.39 µin/in-°F @Temperature 68.0 °F	Longitudinal; ASTM E228
CTE, linear, Transverse to Flow	64.6 µm/m-°C	35.9 µin/in-°F	ASTM E228

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Glass Transition Temp, Tg	165 °C	329 °F	ASTM D3418

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China