

Dow Fulcrum™ Thermoplastic Glass-Filled Polyurethane Composite Strip

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Glass Fiber Reinforced

Material Notes:

FULCRUM Thermoplastic Composite Technology is specifically designed for the fabrication of continuous fiber composites that have greater flexibility in post-processing operations as well as higher toughness and faster production rates than traditional composite materials. The technology, using ISOPLAST® Engineering Thermoplastic Polyurethane (ETPU), allows production of hollow as well as solid elongated profiles using pultrusion techniques. Information provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Fulcrum-Thermoplastic-Glass-Filled-Polyurethane-Composite-Strip.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	ASTM D792
Filler Content	76 %	76 %	Glass

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1000 MPa	145000 psi	ASTM D3039
Elongation at Break	2.2 %	2.2 %	In Tension; ASTM D3039
Modulus of Elasticity	45.0 GPa	6530 ksi	ASTM D3039
Flexural Strength	120 MPa	17400 psi	Transverse; ASTM D790
	1150 MPa	167000 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	Transverse; ASTM D790
	45.0 GPa	6530 ksi	ASTM D790
Izod Impact, Notched	42.0 J/cm	78.7 ft-lb/in	ASTM D256
Izod Impact, Unnotched	59.0 J/cm	111 ft-lb/in	3 strips glued together; ASTM D4812
Impact Test	30.0 J	22.1 ft-lb	Instrumented Impact; 20 mm width sample; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 µm/m-°C	5.00 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	5.20 µm/m-°C	2.89 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	80.0 °C	176 °F	Heat Deflection Temp; Load not specified

Thermal Properties	Metric	English	Comments
Glass Transition Temp. Tg	90.0 °C	203 °F	6" in DMS

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