

Dow Fulcrum™ Thermoplastic Glass-Filled Polyurethane Composite Rod

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-Rod.php

Physical Properties	Metric	English	Comments
Density	1.86 g/cc	0.0672 lb/in ³	ASTM D792
Filler Content	66 %	66 %	Glass

Mechanical Properties	Metric	English	Comments
Elongation at Break	1.5 %	1.5 %	In Compression; ASTM D695
Flexural Strength	1050 MPa	152000 psi	ASTM D4476
Flexural Modulus	40.0 GPa	5800 ksi	ASTM D4476
Compressive Strength	440 MPa	63800 psi	ASTM D695
Compressive Modulus	35.0 GPa	5080 ksi	ASTM D695
Shear Strength	55.0 MPa	7980 psi	ASTM D3846
Izod Impact, Notched	41.0 J/cm	76.8 ft-lb/in	ASTM D256
Izod Impact, Unnotched	59.0 J/cm	111 ft-lb/in	3 strips glued together; ASTM D4812

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