

Polymer Resources PEI-G40 Polyetherimide, 40% Glass Reinforced (Unverified Data**)

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 40% Glass Fiber

Material Notes:

Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples.

Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PEI-G40-Polyetherimide-40-Glass-Reinforced-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	5.0 - 22 g/10 min	5.0 - 22 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	177 MPa	25600 psi	ASTM D638
Tensile Strength, Yield	177 MPa	25600 psi	ASTM D638
Flexural Strength	234 MPa	34000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	214 °C	418 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	413 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/8 in
	V-0	V-0	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	332 - 399 °C	630 - 750 °F	
Middle Barrel Temperature	338 - 399 °C	640 - 750 °F	
Front Barrel Temperature	343 - 399 °C	650 - 750 °F	
Melt Temperature	338 - 399 °C	640 - 750 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	167 - 177 °C	325 - 350 °F	
Drying Temperature	143 - 149 °C	290 - 300 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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