

Polymer Resources PEI-GP1 Polyetherimide, General Purpose, Unreinforced (Unverified Data**)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

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-GP1-Polyetherimide-General-Purpose-Unreinforced-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	5.0 - 30 g/10 min	5.0 - 30 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	15000 psi	ASTM D638
Tensile Strength, Yield	103 MPa	15000 psi	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	400 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/16 in
	V-0	V-0	1/8 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 Processing Properties	343 - 399 °C Metric	650 - 750 °F English	Comments
Melt Temperature	338 - 399 °C	640 - 750 °F	
Mold Temperature	107 - 177 °C	225 - 350 °F	
Drying Temperature	143 - 149 °C	290 - 300 °F	
Dry Time	4 - 6 hour	4 - 6 hour	

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