

Entec Hylox® 9015 PBT, 15% Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Entec's proprietary products include a full range of compounds in the Nylon 6/6, Nylon 6, ABS, PBT, Polycarbonate, PC/ABS, PC/ASA, PC/PBT, and PPO/PPE resin families. Information provided by Entec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hylox-9015-PBT-15-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.070 %	0.070 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	0.125 in; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	93.1 MPa	13500 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	148 MPa	21400 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	73°F; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	28.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0280 in

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.6	3.6	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Strength	26.0 kV/mm	500 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 243 °C	450 - 470 °F	
Middle Barrel Temperature	238 - 249 °C	460 - 480 °F	
Front Barrel Temperature	243 - 254 °C	470 - 490 °F	
Nozzle Temperature	243 - 254 °C	470 - 490 °F	
Melt Temperature	249 - 260 °C	480 - 500 °F	
Mold Temperature	82.2 - 121 °C	180 - 250 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	<= 12 hour	<= 12 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Injection Pressure	6.89 - 11.7 MPa	1000 - 1700 psi	
Back Pressure	0.138 - 0.414 MPa	20.0 - 60.0 psi	
Shot Size	40 - 80 %	40 - 80 %	
Screw Speed	40 - 80 rpm	40 - 80 rpm	

Descriptive Properties	Value	Comments
Holding Pressure	500 to 900 psi	
Injection Rate	Moderate-Fast	

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