

Teknor Apex Beetle[®] 140 BH Nylon 66, Glass Bead Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Bead Filled

Material Notes:

Processing Method: Injection Molding Forms: Pellets Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Beetle-140-BH-Nylon-66-Glass-Bead-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Water Absorption	0.90 %	0.90 %	24 hr; ASTM D750
Linear Mold Shrinkage	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Strength	134 MPa	19500 psi	ASTM D790
Flexural Modulus	4.72 GPa	685 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Temperature 22.8 Â°C	0.800 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	257 Â°C	495 Â°F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	242 Â°C	468 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C	419 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.810 mm	HB @Thickness 0.0319 in	
Oxygen Index	27 %	27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Strength			ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 257 Â°C	465 - 495 Â°F	
Middle Barrel Temperature	257 - 271 Â°C	495 - 520 Â°F	
Front Barrel Temperature	263 - 279 Â°C	505 - 535 Â°F	
Nozzle Temperature	263 - 282 Â°C	505 - 540 Â°F	
Melt Temperature	263 - 282 Â°C	505 - 540 Â°F	Processing Temperature
Drying Temperature	79.4 Â°C	175 Â°F	

Descriptive Properties	Value	Comments
Suggested Moisture, max	0.2	
Suggested Regrind, max	25	

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