

Teknor Apex Beetle® 102 Nylon 66, Unreinforced, Nucleated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Nucleated , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Notes: Nucleated for fast cycling; Improved strength and rigidity; FMVSS Flammability: Passes, FMVSS 302 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-102-Nylon-66-Unreinforced-Nucleated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hr; ASTM D750
Linear Mold Shrinkage	0.010 - 0.016 cm/cm	0.010 - 0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 µm/m-°C	39.0 µin/in-°F	ASTM D696
Melting Point	257 °C	495 °F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	90.6 °C	195 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Strength	16.9 kV/mm @Thickness 3.00 mm	430 kV/in @Thickness 0.118 in	ASTM D149
Comparative Tracking Index	600 V	600 V	UL 746

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 254 Â°C	465 - 490 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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