

Teknor Apex Chemlon[®] 143 G Nylon 66, 43% Short Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Notes: Flammability: Passes, FMVSS 302 Processing Method: Injection Molding Forms: Pellets FMVSS Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-143-G-Nylon-66-43-Short-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	200 MPa	29000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Strength	283 MPa	41000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Temperature 22.8 Â°C	2.50 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	257 Â°C	495 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	252 Â°C	485 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.810 mm	HB @Thickness 0.0319 in	
Oxygen Index	25 %	25 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Strength	16.1 kV/mm @Thickness 3.00 mm	410 kV/in @Thickness 0.118 in	ASTM D149

Electrical Properties	Metric	English	Comments
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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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