

Teknor Apex Chemlon[®] 233 GH Nylon, 6, 30% Short Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Features: Good Dimensional Stability; Good Impact Resistance; Good Processability; Good Toughness; Heat Stabilized; High Strength;

Lubricated Processing Method: Injection Molding Forms: Pellets Additive: Heat Stabilizer Automotive Specifications: GM

GMP.PA6.009 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-233-GH-Nylon-6-30-Short-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	169 MPa	24500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm @Temperature 22.8 °C	2.70 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	52.2 µm/m-°C	29.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	413 °F	Unannealed; ASTM D648
UL RTI, Electrical	105 °C @Thickness 0.810 mm	221 °F @Thickness 0.0319 in	UL 746
	105 °C @Thickness 1.50 mm	221 °F @Thickness 0.0590 in	UL 746
	105 °C @Thickness 3.00 mm	221 °F @Thickness 0.118 in	UL 746
	105 °C	221 °F	

UL RTI Mechanical with Impact Thermal Properties	Metric @Thickness 0.810 mm	English @Thickness 0.0319 in	UL 746 Comments
	105 Å°C @Thickness 1.50 mm	221 Å°F @Thickness 0.0590 in	UL 746
	105 Å°C @Thickness 3.00 mm	221 Å°F @Thickness 0.118 in	UL 746
UL RTI, Mechanical without Impact	105 Å°C @Thickness 0.810 mm	221 Å°F @Thickness 0.0319 in	UL 746
	105 Å°C @Thickness 1.50 mm	221 Å°F @Thickness 0.0590 in	UL 746
	105 Å°C @Thickness 3.00 mm	221 Å°F @Thickness 0.118 in	UL 746
Flammability, UL94	HB @Thickness 0.810 mm	HB @Thickness 0.0319 in	
Oxygen Index	22 %	22 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	11.0 kV/mm @Thickness 3.00 mm	280 kV/in @Thickness 0.118 in	ASTM D149
Comparative Tracking Index	500 V	500 V	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	218 - 235 Å°C	425 - 455 Å°F	
Middle Barrel Temperature	252 - 263 Å°C	485 - 505 Å°F	
Front Barrel Temperature	252 - 268 Å°C	485 - 515 Å°F	
Nozzle Temperature	252 - 268 Å°C	485 - 515 Å°F	
Melt Temperature	216 Å°C	420 Å°F	
Mold Temperature	60.0 - 93.3 Å°C	140 - 200 Å°F	
Drying Temperature	79.4 Å°C	175 Å°F	
Injection Pressure	34.5 - 138 MPa	5000 - 20000 psi	

Screw Speed Processing Properties	60 - 120 rpm Metric	60 - 120 rpm English	Comments
Descriptive Properties		Value	Comments
Appearance		Black	
Suggested Moisture, max		0.2	
Suggested Regrind, max		25	

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