

Teknor Apex Chemlon[®] 225-15 MG Nylon 6, 25% Mineral Reinforced, 15% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled , Nylon 6, 30% Mineral Filled , Nylon 6, Glass Fiber Filled, Flame Retardant , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Features: Compound offering rigidity and strength, especially at high service temperatures; Excellent for large area parts Processing

Method: Injection Molding Forms: Pellets Automotive Specifications: FORD ESB-M4D353-A3 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-225-15-MG-Nylon-6-25-Mineral-Reinforced-15-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Linear Mold Shrinkage	0.0015 - 0.0040 cm/cm	0.0015 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	128 MPa	18500 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Elongation at Yield	2.5 %	2.5 %	ASTM D638
Flexural Strength	190 MPa	27500 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Temperature 22.8 Â°C	1.60 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	55.8 Âµm/m-Â°C	31.0 Âµin/in-Â°F	ASTM D696
Melting Point	216 Â°C	420 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 Â°C	149 Â°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Â°C	149 Â°F	UL 746

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
UL RTI, Mechanical with Impact	65.0 Å°C	149 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 Å°C	149 Å°F	
UL RTI, Mechanical without Impact	@Thickness 1.50 mm	@Thickness 0.0590 in	UL 746
	65.0 Å°C	149 Å°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 Å°C	149 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 Å°C	149 Å°F	
UL RTI, Mechanical without Impact	@Thickness 1.50 mm	@Thickness 0.0590 in	UL 746
	65.0 Å°C	149 Å°F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	24 %	24 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	
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	246 - 257 Å°C	475 - 495 Å°F	
Front Barrel Temperature	246 - 268 Å°C	475 - 515 Å°F	
Nozzle Temperature	246 - 268 Å°C	475 - 515 Å°F	
Melt Temperature	249 - 266 Å°C	480 - 510 Å°F	Processing Temperature

Descriptive Properties	Value	Comments
Suggested Re grind, max	25	

Descriptive Properties	Value	Comments
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