

Teknor Apex Chemlon[®] 100 Nylon 66, Unreinforced

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

Material Notes:

Features: Basic nylon 66 with internal lubrication. Widely used for automotive, electronic and appliance applications. Processing Method:

Injection Molding Forms: Pellets Automotive Specifications: Ford ESB-M4D150-A; Ford ESF-M4D150-A Information Provided by Teknor

Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-100-Nylon-66-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hr; ASTM D750
Linear Mold Shrinkage	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	ASTM D955
Melt Flow	10.0 g/10 min @Load 0.325 kg, Temperature 235 Å°C	10.0 g/10 min @Load 0.716 lb, Temperature 455 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.86 GPa	415 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Temperature 22.8 Å°C	1.10 ft-lb/in @Temperature 73.0 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 Åµm/m-Å°C	39.0 Åµin/in-Å°F	ASTM D696
Melting Point	257 Å°C	495 Å°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.6 Å°C	195 Å°F	Unannealed; ASTM D648
	115 Å°C	239 Å°F	

UL RTI Electrical Thermal Properties	Metric @Thickness 0.810 mm	English @Thickness 0.0319 in	UL 746 Comments
	115 Å°C @Thickness 1.50 mm	239 Å°F @Thickness 0.0590 in	UL 746
	115 Å°C @Thickness 3.00 mm	239 Å°F @Thickness 0.118 in	UL 746
UL RTI, Mechanical with Impact	75.0 Å°C @Thickness 0.810 mm	167 Å°F @Thickness 0.0319 in	UL 746
	75.0 Å°C @Thickness 1.50 mm	167 Å°F @Thickness 0.0590 in	UL 746
	85.0 Å°C @Thickness 3.00 mm	185 Å°F @Thickness 0.118 in	UL 746
UL RTI, Mechanical without Impact	95.0 Å°C @Thickness 0.810 mm	203 Å°F @Thickness 0.0319 in	UL 746
	95.0 Å°C @Thickness 1.50 mm	203 Å°F @Thickness 0.0590 in	UL 746
	95.0 Å°C @Thickness 3.00 mm	203 Å°F @Thickness 0.118 in	UL 746
Flammability, UL94	V-2	V-2	
Oxygen Index	27 %	27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Strength	18.1 kV/mm @Thickness 3.00 mm	460 kV/in @Thickness 0.118 in	ASTM D149
Comparative Tracking Index	600 V	600 V	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 254 Å°C	465 - 490 Å°F	
Middle Barrel Temperature	257 - 274 Å°C	495 - 525 Å°F	
Front Barrel Temperature	263 - 282 Å°C	505 - 540 Å°F	
Nozzle Temperature	263 - 279 Å°C	505 - 535 Å°F	

Processing Properties	Metric	English	Comments
Melt Temperature	263 - 279 Â°C	500 - 535 Â°F	Processing Temperature
Drying Temperature	79.4 Â°C	175 Â°F	

Descriptive Properties	Value	Comments
Suggested Moisture, max	0.2	
Suggested Re grind, max	25	

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