

Teknor Apex Chemlon[®] 100 L Nylon 66, Unreinforced

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

Material Notes:

Notes: Internally and externally lubricated; General Purpose; Double-lubricated for improved part ejection and machine feed 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-Chemlon-100-L-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 1.00 kg, Temperature 235 Â°C	10.0 g/10 min @Load 2.20 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	109 MPa	15800 psi	ASTM D790
Flexural Modulus	2.79 GPa	405 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 Â°C	1.00 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 Âµm/m-Â°C	39.0 Âµin/in-Â°F	ASTM D696
Melting Point	257 Â°C	495 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C	425 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 Â°C	190 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	115 Â°C	239 Â°F	UL 746

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	18.1 kV/mm	460 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	
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	

Processing Properties	Metric	English	Comments
Melt Temperature	263 - 279 Å°C	505 - 535 Å°F	Processing Temperature
Drying Temperature	79.4 Å°C	175 Å°F	

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

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