

Teknor Apex Chemlon® 182 Nylon 66, Non-Halogenated

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

Material Notes:

Notes: General Purpose; U.L. 94 V-O at 0.57 mm; Colorable; Flame Retardant 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-182-Nylon-66-Non-Halogenated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.014 cm/cm	0.0090 - 0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	72.4 MPa	10500 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	3.21 GPa	465 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
Melting Point	257 Â°C	495 Â°F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	224 Â°C	435 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	120 Â°C @Thickness 0.810 mm	248 Â°F @Thickness 0.0319 in	UL 746
	120 Â°C @Thickness 1.50 mm	248 Â°F @Thickness 0.0590 in	UL 746
	120 Â°C	248 Â°F	

Thermal Properties	Metric	English	UL 746 Comments
UL RTI, Mechanical with Impact	95.0 Å°C	203 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	105 Å°C	221 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	105 Å°C	221 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	120 Å°C	248 Å°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	120 Å°C	248 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	120 Å°C	248 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness 0.569 mm	@Thickness 0.0224 in	
Oxygen Index	33 %	33 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Strength	16.9 kV/mm	430 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	246 - 257 Å°C	475 - 495 Å°F	
Middle Barrel Temperature	263 - 268 Å°C	505 - 515 Å°F	
Front Barrel Temperature	263 - 274 Å°C	505 - 525 Å°F	
Nozzle Temperature	268 - 279 Å°C	515 - 535 Å°F	
Melt Temperature	263 - 277 Å°C	505 - 530 Å°F	Processing Temperature
Drying Temperature	79.4 Å°C	175 Å°F	

Descriptive Properties	Value	Comments
Suggested Moisture, max	0.2	

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