

Teknor Apex Chemlon® 282 Nylon 6, Non-halogenated

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced, Flame Retardant

Material Notes:

Features: Flame Retardant; General Purpose; Halogen-free; U.L. 94 V-O at 0.63 mm; Colorable Processing Method: Injection Molding Forms:

Pellets Additive: Flame Retardant Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-282-Nylon-6-Non-halogenated.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.0147 cm/cm	0.0090 - 0.0147 in/in	ASTM D955
Melt Flow	13.0 g/10 min @Load 5.00 kg, Temperature 235 Â°C	13.0 g/10 min @Load 11.0 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	72.4 MPa	10500 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	3.14 GPa	455 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	216 Â°C	420 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	79.4 Â°C	175 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	130 Â°C @Thickness 0.810 mm	266 Â°F @Thickness 0.0319 in	UL 746
	130 Â°C @Thickness 1.50 mm	266 Â°F @Thickness 0.0590 in	UL 746

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	UL 746
UL RTI, Mechanical with Impact	105 Â°C	221 Â°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	105 Â°C	221 Â°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	105 Â°C	221 Â°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	120 Â°C	248 Â°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	120 Â°C	248 Â°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	120 Â°C	248 Â°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness 0.630 mm	@Thickness 0.0248 in	
Oxygen Index	32 %	32 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	15.0 kV/mm	380 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	218 - 235 Â°C	425 - 455 Â°F	
Middle Barrel Temperature	229 - 252 Â°C	445 - 485 Â°F	
Front Barrel Temperature	241 - 260 Â°C	465 - 500 Â°F	
Nozzle Temperature	241 - 260 Â°C	465 - 500 Â°F	
Melt Temperature	241 - 260 Â°C	465 - 500 Â°F	Processing Temperature
Drying Temperature	79.4 Â°C	175 Â°F	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Suggested Moisture, max		0.2	
Suggested Regrind, max		25	

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