

Teknor Apex Chemlon[®] 212 Nylon 6, Unreinforced

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

Material Notes:

Features: Lubricated, General Purpose; General purpose nylon 6; Slightly tougher and more ductile than nylon 66 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-212-Nylon-6-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Linear Mold Shrinkage	0.014 - 0.018 cm/cm	0.014 - 0.018 in/in	ASTM D955
Melt Flow	8.00 g/10 min @Load 1.00 kg, Temperature 235 °C	8.00 g/10 min @Load 2.20 lb, Temperature 455 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	2.86 GPa	415 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	61.2 µm/m-°C	34.0 µin/in-°F	ASTM D696
Melting Point	216 °C	420 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.2 °C	198 °F	Unannealed; ASTM D648
UL RTI, Electrical	125 °C	257 °F	UL 746

Thermal Properties	@Thickness 0.810 mm Metric	@Thickness 0.0319 in English	Comments
	125 Å°C	257 Å°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	125 Å°C	257 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	
	75.0 Å°C	167 Å°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	110 Å°C	230 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	
	125 Å°C	257 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	25 %	25 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	14.2 kV/mm	360 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 Å°C	425 - 455 Å°F	
Middle Barrel Temperature	229 - 252 Å°C	445 - 485 Å°F	
Front Barrel Temperature	241 - 260 Å°C	465 - 500 Å°F	

Nozzle Temperature Processing Properties	241 - 266 Å°C Metric	465 - 510 Å°F English	Comments
Melt Temperature	241 - 266 Å°C	465 - 510 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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