

Teknor Apex Chemlon® 253 Nylon 6, Toughened

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Features: Medium Impact Resistance; Impact modified co-polymer grade offering strength and flexibility, especially at low temperatures

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-253-Nylon-6-Toughened.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage	0.015 - 0.019 cm/cm	0.015 - 0.019 in/in	ASTM D955
Melt Flow	5.00 g/10 min @Load 1.00 kg, Temperature 235 Â°C	5.00 g/10 min @Load 2.20 lb, Temperature 455 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Temperature -40.0 Â°C	2.50 ft-lb/in @Temperature -40.0 Â°F	ASTM D256
	1.87 J/cm @Temperature 22.8 Â°C	3.50 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	84.6 Âµm/m-Â°C	47.0 Âµin/in-Â°F	ASTM D696
Melting Point	216 Â°C	420 Â°F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	60.0 Â°C	140 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	65.0 Â°C	149 Â°F	UL 746

Thermal Properties	@Thickness 0.810 mm Metric	@Thickness 0.0319 in English	Comments
	65.0 Â°C	149 Â°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Â°C	149 Â°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	UL 746
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	65.0 Â°C	149 Â°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Â°C	149 Â°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
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	65.0 Â°C	149 Â°F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0590 in	
	65.0 Â°C	149 Â°F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	21 %	21 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	11.8 kV/mm	300 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 Processing Properties	241 - 266 Â°C Metric	465 - 510 Â°F English	Comments
Melt Temperature	241 - 266 Â°C	465 - 510 Â°F	Processing Temperature

Descriptive Properties	Value	Comments
Suggested Moisture, max	0.2	
Suggested Regrind, max	25	

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