

Teknor Apex Chemlon® 109 Nylon 66, Impact Grade

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Notes: High-Impact; Exceptional impact strength, especially at low temperatures; FMVSS Flammability: Passes, FMVSS 302 Processing

Method: Injection Molding Forms: Pellets Automotive Specifications: Chrysler MS-DB41 CPN2456 Color: 100% Color Match; Ford ESA-M4D379-A; GM GMP.PA66.021 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-109-Nylon-66-Impact-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage	0.019 - 0.025 cm/cm	0.019 - 0.025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Flexural Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	9.61 J/cm	18.0 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	257 °C	495 °F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	62.8 °C	145 °F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 0.749 mm	@Thickness 0.0295 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	9.84 kV/mm @Thickness 3.00 mm	250 kV/in @Thickness 0.118 in	ASTM D149
Comparative Tracking Index	600 V	600 V	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 257 Â°C	465 - 495 Â°F	
Middle Barrel Temperature	257 - 271 Â°C	495 - 520 Â°F	
Front Barrel Temperature	263 - 279 Â°C	505 - 535 Â°F	
Nozzle Temperature	263 - 282 Â°C	505 - 540 Â°F	
Melt Temperature	263 - 282 Â°C	505 - 540 Â°F	Processing Temperature
Drying Temperature	79.4 Â°C	175 Â°F	

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China