

Teknor Apex Chemlon® 100 W Nylon 66, Unreinforced

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

Material Notes:

Notes: MoS₂ modified; Molybdenum disulphide modified to provide self-lubrication and low friction to parts subjected to wear and abrasion. FMVSS Flammability: Passes, FMVSS 302 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-100-W-Nylon-66-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Linear Mold Shrinkage	0.012 - 0.018 cm/cm	0.012 - 0.018 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	93.1 MPa	13500 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Elongation at Yield	4.5 %	4.5 %	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Temperature 22.8 Â°C	1.20 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 1.8 MPa (264 psi)	107 Â°C	225 Â°F	Unannealed; ASTM D648
Flammability, UL94	V-2 @Thickness 0.749 mm	V-2 @Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Strength	16.9 kV/mm @Thickness 3.00 mm	430 kV/in @Thickness 0.118 in	ASTM D149

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 254 Â°C	465 - 490 Â°F	
Middle Barrel Temperature	257 - 271 Â°C	495 - 520 Â°F	
Front Barrel Temperature	263 - 279 Â°C	505 - 535 Â°F	
Melt Temperature	263 - 282 Â°C	505 - 540 Â°F	Processing Temperature
Drying Temperature	79.4 Â°C	175 Â°F	

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