

Teknor Apex Chemlon® 140 MH Nylon 66, 40% Mineral Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled

Material Notes:

Notes: 40% Mineral; High rigidity with exceptional control of warpage and surface sink marks; Excellent for large parts; Fast cycling

Features: Fast Molding Cycle; High Rigidity; Heat Stabilized; Low Warpage Processing Method: Injection Molding Forms: Pellets

Automotive Specifications: GM GMP.PA66.007 Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-140-MH-Nylon-66-40-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.80 %	0.80 %	24 hr; ASTM D750
Linear Mold Shrinkage	0.0070 - 0.012 cm/cm	0.0070 - 0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	1.8 %	1.8 %	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Temperature 22.8 °C	0.900 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	46.8 µm/m-°C	26.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	202 °C	395 °F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.810 mm	HB @Thickness 0.0319 in	
Oxygen Index	27 %	27 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Electrical Properties	15.0 kV/mm Metric	380 kV/in English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 - 254 °C	465 - 490 °F	
Middle Barrel Temperature	257 - 274 °C	495 - 525 °F	
Front Barrel Temperature	263 - 282 °C	505 - 540 °F	
Nozzle Temperature	263 - 279 °C	505 - 535 °F	
Melt Temperature	257 °C	495 °F	
	263 - 279 °C	505 - 535 °F	Processing Temperature
Mold Temperature	60.0 - 93.3 °C	140 - 200 °F	
Drying Temperature	79.4 °C	175 °F	
Injection Pressure	34.5 - 138 MPa	5000 - 20000 psi	
Screw Speed	60 - 120 rpm	60 - 120 rpm	

Descriptive Properties	Value	Comments
Appearance	Black; Natural Color	
Suggested Moisture, max	0.2	
Suggested Re grind, max	25	

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