

Teknor Apex Chemlon® 214 GH Nylon 6, 14% Short Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Features: Good Creep Resistance; Good Dimensional Stability; Good Processability; Good Toughness; Heat Stabilized; High Strength

Processing Method: Injection Molding Forms: Pellets Additive: Heat Stabilizer; Lubricant Information Provided by Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Chemlon-214-GH-Nylon-6-14-Short-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	114 MPa	16500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Strength	162 MPa	23500 psi	ASTM D790
Flexural Modulus	4.31 GPa	625 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Temperature 22.8 °C	1.20 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	55.8 µm/m-°C	31.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	400 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	188 °C	370 °F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.810 mm	HB @Thickness 0.0319 in	
Oxygen Index	22 %	22 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
	11.0 kV/mm	280 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	ASTM D149 Comments
Comparative Tracking Index	500 V	500 V	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	218 - 235 °C	425 - 455 °F	
Middle Barrel Temperature	241 - 257 °C	465 - 495 °F	
Front Barrel Temperature	246 - 268 °C	475 - 515 °F	
Nozzle Temperature	246 - 268 °C	475 - 515 °F	
Melt Temperature	216 °C	420 °F	
	249 - 266 °C	480 - 510 °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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