

Teknor Apex Chemlon® 345G Nylon 610, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

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-345G-Nylon-610-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Water Absorption	0.17 %	0.17 %	24 hr; ASTM D750
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	183 MPa	26500 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Elongation at Yield	2.5 %	2.5 %	ASTM D638
Flexural Strength	259 MPa	37500 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	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
Deflection Temperature at 1.8 MPa (264 psi)	216 Â°C	420 Â°F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 0.810 mm	HB @Thickness 0.0319 in	
Oxygen Index	25 %	25 %	ASTM D2863

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 252 Â°C	455 - 485 Â°F	
Middle Barrel Temperature	246 - 268 Â°C	475 - 515 Â°F	
Front Barrel Temperature	257 - 274 Â°C	495 - 525 Â°F	

Nozzle Temperature Processing Properties	252 - 279 Å°C Metric	485 - 535 Å°F English	Comments
Melt Temperature	223 Å°C	433 Å°F	
	252 - 277 Å°C	485 - 530 Å°F	Processing Temperature
Drying Temperature	79.4 Å°C	175 Å°F	

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

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