

PTS Trimid® N6-G15L 15% GFR Nylon 6 with Lube

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-Trimid-N6-G15L-15-GFR-Nylon-6-with-Lube.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	1.0 %	1.0 %	ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120.1 MPa	17420 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Flexural Yield Strength	164.8 MPa	23900 psi	ASTM D790
Flexural Modulus	4.56 GPa	661 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 3.17 mm	1.29 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	<= 216 °C	<= 420 °F	
Middle Barrel Temperature	227 - 254 °C	440 - 490 °F	
Front Barrel Temperature	238 - 266 °C	460 - 510 °F	
Nozzle Temperature	238 - 266 °C	460 - 510 °F	
Melt Temperature	232 - 271 °C	450 - 520 °F	
Mold Temperature	21.1 - 93.3 °C	70.0 - 200 °F	

Drying Temperature Processing Properties	82.2 °C Metric	180 °F English	Comments
Dry Time	3 - 4 hour	3 - 4 hour	
Injection Pressure	82.7 - 172 MPa	12000 - 25000 psi	
Back Pressure	0.000 - 0.345 MPa	0.000 - 50.0 psi	
Screw Speed	40 - 80 rpm	40 - 80 rpm	

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