

PTS Trimid® N6-615I-NC Extrusion Grade Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Extruded

Material Notes:

Total Extractables < 1.5. Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_PTS-Trimid-N6-615I-NC-Extrusion-Grade-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Viscosity Measurement	100	100	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	79.3 MPa	11500 psi	ASTM D638
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	250 %	250 %	ASTM D638
Flexural Modulus	2.93 GPa	425 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.17 mm	0.899 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °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	82.2 °C	180 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

Injection Pressure Processing Properties	82.7 - 172 MPa Metric	12000 - 25000 psi English	Comments
Back Pressure	0.000 - 0.345 MPa	0.000 - 50.0 psi	
Screw Speed	40 - 80 rpm	40 - 80 rpm	

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