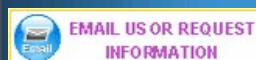


CONTACT US AT:
2315 Southpark Drive
Murfreesboro, TN 37128

Phone: 615-898-1700
Toll Free: 1-800-475-1701
Fax: 615-898-1697
Email: pts@ptslc.com



Going Green



 ENGINEERING POLYMER SPECIALISTS
Polymer Technology & Services, LLC

PTS Trimid® N66-100NL Nucleated, Lubricated Nylon 6 / 6

Categories: [Polymer](#); [Thermoplastic](#); [Nylon](#); [Nylon 66](#); [Nylon 66, Nucleated](#)

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

Key Words: Polyamide 66; PA66

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Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	20.0 %	20.0 %	ASTM D638
Flexural Modulus	2.96 GPa	429 ksi	ASTM D790
Flexural Yield Strength	124.1 MPa	18000 psi	ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	254 °C	490 °F	
Middle Barrel Temperature	268 °C	515 °F	
Front Barrel Temperature	285 °C	545 °F	
Nozzle Temperature	266 - 282 °C	510 - 540 °F	
Melt Temperature	271 - 293 °C	520 - 560 °F	
Mold Temperature	26.7 - 93.3 °C	80.0 - 200 °F	
Drying Temperature	71.1 °C	160 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	68.9 MPa	10000 psi	
Back Pressure	0.0689 - 0.689 MPa	10.0 - 100 psi	
Screw Speed	30.0 - 60.0 rpm	30.0 - 60.0 rpm	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding errors. [Click here](#) to view all the property values for this datasheet as they were originally entered.

These test results are believed to be based on reliable procedures. Due to variable conditions or methods of processing, NO GUARANTEES OR WARRANTIES ARE EXPECTED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. The above information is not to be construed as a license or a recommendation to infringe on any patents. Typical properties are for natural, unpigmented resins unless otherwise stated.

Actual processing conditions will depend on machine size, mold design, material residence time, and shot size. The settings shown should serve as a guide to achieve the necessary stock temperatures for stable processing and good product quality. Stock melt temperatures taken with a hand pyrometer is a good guide for selection of optimum operating conditions.

* This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

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