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Engineering Polymer Specialists
Polymer Technology & Services, LLC

PTS Trimid® N66-G33 33% Glass Fiber Reinforced Nylon 6/6

Categories: Polymer; Thermoplastic; Filled/Reinforced Thermoplastic; Nylon; Nylon 66; Nylon 66, 30% Mineral Filled

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	1.36 g/cc	0.0491 lb/in³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	158.6 MPa	23000 psi	ASTM D638
Elongation at Break	3.00 %	3.00 %	ASTM D638
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	254 °C	489 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	243 °C	469 °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 co format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize roun 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 WA ARE EXPECTED OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. The above infor not to be construed as a license or a recommendation to infringe on any patents. Typical properties are for natural, unpigmented resins unless ot stated.

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