

North Wood Plastics Polypropylene with 40% Wood Fiber, Molding Grade

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Wood Filled

Material Notes:

Data provided by North Wood Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_North-Wood-Plastics-Polypropylene-with-40-Wood-Fiber-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.039 g/cc	0.03754 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Melt Flow	2.4 g/10 min @Temperature 190 °C	2.4 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	5.4 %	5.4 %	ASTM D638
Tensile Modulus	3.30 GPa	479 ksi	ASTM D638
Flexural Yield Strength	48.0 MPa	6960 psi	ASTM D790
Flexural Modulus	3.30 GPa	479 ksi	1% Secant at 0.05 in/min; ASTM D790
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.840 J/cm	1.57 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 μm/m-°C @Temperature 20.0 °C	27.8 μin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	83.0 °C	181 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	<= 200 °C	<= 392 °F	To prevent fiber degradation.

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