

North Wood Plastics Polypropylene with 20% 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-20-Wood-Fiber-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.966 g/cc	0.0349 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0087 cm/cm	0.0087 in/in	ASTM D955
Melt Flow	7.4 g/10 min @Temperature 190 °C	7.4 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM D638
Elongation at Break	9.2 %	9.2 %	ASTM D638
Tensile Modulus	2.50 GPa	363 ksi	ASTM D638
Flexural Yield Strength	47.0 MPa	6820 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	1% Secant at 0.05 in/min; ASTM D790
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 μm/m-°C @Temperature 20.0 °C	35.0 μin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C	142 °F	ASTM D648

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

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