

North Wood Plastics Polypropylene with 60% 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-60-Wood-Fiber-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.145 g/cc	0.04137 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0018 cm/cm	0.0018 in/in	ASTM D955
Melt Flow	<= 0.50 g/10 min @Temperature 190 °C	<= 0.50 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Tensile Modulus	6.20 GPa	899 ksi	ASTM D638
Flexural Yield Strength	39.0 MPa	5660 psi	ASTM D790
Flexural Modulus	4.90 GPa	711 ksi	1% Secant at 0.05 in/min; ASTM D790
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 μm/m-°C @Temperature 20.0 °C	20.0 μin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ASTM D648

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

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