

North Wood Plastics PS with 20% Wood Fiber

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, 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-PS-with-20-Wood-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.074 g/cc	0.03880 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0026 cm/cm	0.0026 in/in	ASTM D955
Melt Flow	1.6 g/10 min @Temperature 190 °C	1.6 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 MPa	2900 psi	ASTM D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Break	5.8 %	5.8 %	ASTM D638
Tensile Modulus	4.00 GPa	580 ksi	ASTM D638
Flexural Yield Strength	48.0 MPa	6960 psi	ASTM D790
Flexural Modulus	3.20 GPa	464 ksi	ASTM D790
Izod Impact, Notched	0.410 J/cm	0.768 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.800 J/cm	1.50 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)	75.0 °C	167 °F	ASTM D648

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

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