

North Wood Plastics PS with 40% 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-40-Wood-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.156 g/cc	0.04176 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.00080 cm/cm	0.00080 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	29.0 MPa	4210 psi	ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Tensile Modulus	5.80 GPa	841 ksi	ASTM D638
Flexural Yield Strength	56.0 MPa	8120 psi	ASTM D790
Flexural Modulus	5.20 GPa	754 ksi	ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.500 J/cm	0.937 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)	81.0 °C	178 °F	ASTM D648

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

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