

North Wood Plastics PS with 60% 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-60-Wood-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Estimated by MatWeb
Linear Mold Shrinkage	0.00010 cm/cm	0.00010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ASTM D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	12.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	68.0 $^{\circ}\text{C}$	154 $^{\circ}\text{F}$	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	≤ 200 $^{\circ}\text{C}$	≤ 392 $^{\circ}\text{F}$	To prevent fiber degradation.

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