

North Wood Plastics HDPE with 20% Wood Fiber

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE) , 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-HDPE-with-20-Wood-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.003 g/cc	0.03624 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	ASTM D955
Melt Flow	2.6 g/10 min @Temperature 190 °C	2.6 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.0 MPa	2180 psi	ASTM D638
Tensile Strength, Yield	17.0 MPa	2470 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	ASTM D638
Flexural Yield Strength	31.0 MPa	4500 psi	ASTM D790
Flexural Modulus	1.40 GPa	203 ksi	ASTM D790
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.40 J/cm	2.62 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 μm/m-°C @Temperature 20.0 °C	55.0 μin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ASTM D648
Flammability, UL94	HB	HB	0.32 cm x 1.25 cm x 12.5 cm sample
	HB	HB	0.32 cm x 1.25 cm x 12.5 cm sample

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

Processing Properties

Metric

English

Comments

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