

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

Physical Properties	Metric	English	Comments
Density	1.054 g/cc	0.03808 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0072 cm/cm	0.0072 in/in	ASTM D955
Melt Flow	2.3 g/10 min	2.3 g/10 min	
	@Temperature 190 °C	@Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	16.0 MPa	2320 psi	ASTM D638
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638
Elongation at Break	4.9 %	4.9 %	ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	ASTM D638
Flexural Yield Strength	35.0 MPa	5080 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.550 J/cm	1.03 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °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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Contact Songhan Plastic Technology Co.,Ltd.

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