

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

Physical Properties	Metric	English	Comments
Density	1.158 g/cc	0.04184 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0056 cm/cm	0.0056 in/in	ASTM D955
Melt Flow	1.5 g/10 min @Temperature 190 °C	1.5 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.0 MPa	2180 psi	ASTM D638
Tensile Strength, Yield	16.0 MPa	2320 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
Tensile Modulus	4.40 GPa	638 ksi	ASTM D638
Flexural Yield Strength	30.0 MPa	4350 psi	ASTM D790
Flexural Modulus	4.10 GPa	595 ksi	ASTM D790
Izod Impact, Unnotched	0.270 J/cm	0.506 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)	62.0 °C	144 °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.

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