

North Wood Plastics 60 HDPE + UNIFILL (40% Wood Fiber)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Wood Filled

Material Notes:

Data provided by North Wood Plastics, Inc. UNIFILL-60 is a general purpose polyolefin compound compatible in both PP and HDPE. It is a masterbatch with 60% high quality pine wood flour filler. It is made with only the highest quality recycled resins. 1:2 HDPE:UNIFILL-60 yields an end product with 40% fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_North-Wood-Plastics-60-HDPE-UNIFILL-40-Wood-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.071 g/cc	0.03869 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0066 cm/cm	0.0066 in/in	ASTM D955
Melt Flow	0.70 g/10 min @Temperature 190 °C	0.70 g/10 min @Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	15.0 MPa	2180 psi	ASTM D638
Elongation at Break	3.7 %	3.7 %	ASTM D638
Tensile Modulus	3.80 GPa	551 ksi	ASTM D638
Flexural Yield Strength	43.0 MPa	6240 psi	ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.910 J/cm	1.70 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	49.0 °C	120 °F	ASTM D648

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

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