

Overview of materials for High Density Polyethylene (HDPE), Wood Filled

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

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "High Density Polyethylene (HDPE), Wood Filled". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Overview-of-materials-for-High-Density-Polyethylene-HDPE-Wood-Filled.php

Physical Properties	Metric	English	Comments
Density	0.994 - 1.24 g/cc	0.0359 - 0.0448 lb/in ³	Average value: 1.08 g/cc Grade Count:7
Linear Mold Shrinkage	0.00560 - 0.0140 cm/cm	0.00560 - 0.0140 in/in	Average value: 0.00908 cm/cm Grade Count:5
Melt Flow	0.100 - 23.6 g/10 min	0.100 - 23.6 g/10 min	Average value: 4.69 g/10 min Grade Count:6

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	15.0 - 23.1 MPa	2180 - 3350 psi	Average value: 17.3 MPa Grade Count:4
Tensile Strength, Yield	15.0 - 33.9 MPa	2180 - 4920 psi	Average value: 19.1 MPa Grade Count:6
Elongation at Break	0.790 - 15.0 %	0.790 - 15.0 %	Average value: 7.06 % Grade Count:7
Modulus of Elasticity	1.70 - 4.86 GPa	247 - 705 ksi	Average value: 3.21 GPa Grade Count:6
Flexural Yield Strength	29.8 - 43.0 MPa	4320 - 6240 psi	Average value: 34.5 MPa Grade Count:6
Flexural Modulus	1.12 - 4.10 GPa	163 - 595 ksi	Average value: 2.05 GPa Grade Count:6
Izod Impact, Notched	0.210 - 0.430 J/cm	0.393 - 0.806 ft-lb/in	Average value: 0.310 J/cm Grade Count:4
Izod Impact, Unnotched	0.270 - 2.40 J/cm	0.506 - 4.50 ft-lb/in	Average value: 1.11 J/cm Grade Count:5

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 - 99.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	20.0 - 55.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 64.3 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	43.0 - 62.0 $^\circ\text{C}$	109 - 144 $^\circ\text{F}$	Average value: 50.4 $^\circ\text{C}$ Grade Count:5

Flammability UL 94 Thermal Properties	HB Metric	HB English	Grade Count:3 Comments
Processing Properties	Metric	English	Comments
Processing Temperature	200 °C	392 °F	Average value: 200 °C Grade Count:5

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