

Overview of materials for Polypropylene, Wood Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Wood Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polypropylene, 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-Polypropylene-Wood-Filled.php

Physical Properties	Metric	English	Comments
Density	0.951 - 1.21 g/cc	0.0344 - 0.0437 lb/in ³	Average value: 1.03 g/cc Grade Count:22
Linear Mold Shrinkage	0.00180 - 0.0100 cm/cm	0.00180 - 0.0100 in/in	Average value: 0.00549 cm/cm Grade Count:14
Melt Flow	0.500 - 7.40 g/10 min	0.500 - 7.40 g/10 min	Average value: 2.65 g/10 min Grade Count:12

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 - 62.1 MPa	2900 - 9000 psi	Average value: 36.6 MPa Grade Count:16
Tensile Strength, Yield	21.0 - 40.0 MPa	3050 - 5800 psi	Average value: 28.4 MPa Grade Count:9
Elongation at Break	1.20 - 10.0 %	1.20 - 10.0 %	Average value: 5.18 % Grade Count:20
Modulus of Elasticity	1.72 - 6.20 GPa	250 - 899 ksi	Average value: 3.26 GPa Grade Count:20
Flexural Yield Strength	38.0 - 103 MPa	5510 - 15000 psi	Average value: 57.6 MPa Grade Count:19
Flexural Modulus	1.79 - 4.90 GPa	260 - 711 ksi	Average value: 2.96 GPa Grade Count:21
Izod Impact, Notched	0.220 - 0.801 J/cm	0.412 - 1.50 ft-lb/in	Average value: 0.471 J/cm Grade Count:18
Izod Impact, Unnotched	0.400 - 5.34 J/cm	0.749 - 10.0 ft-lb/in	Average value: 3.00 J/cm Grade Count:18

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 - 63.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	20.0 - 35.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Average value: 49.7 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ Grade Count:6
Deflection Temperature at 0.46 MPa (66 psi)	65.6 - 142 $^{\circ}\text{C}$	150 - 288 $^{\circ}\text{F}$	Average value: 122 $^{\circ}\text{C}$ Grade Count:10

Deflection Temperature at 1.8 MPa (100 psi) Thermal Properties	60.0 - 128 °C Metric	140 - 262 °F English	Average value: 78.0 °C Grade Count:10
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Processing Properties	Metric	English	Comments
Processing Temperature	200 °C	392 °F	Average value: 200 °C Grade Count:8
Melt Temperature	185 - 232 °C	365 - 450 °F	Average value: 203 °C Grade Count:13
Mold Temperature	30.0 - 65.6 °C	86.0 - 150 °F	Average value: 47.4 °C Grade Count:12
Drying Temperature	70.0 - 90.0 °C	158 - 194 °F	Average value: 78.4 °C Grade Count:13
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:10

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