

Overview of materials for Polystyrene, Wood Filled

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Wood Filled

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.07 - 1.25 g/cc	0.0388 - 0.0452 lb/in ³	Average value: 1.16 g/cc Grade Count:3
Linear Mold Shrinkage	0.000100 - 0.00260 cm/cm	0.000100 - 0.00260 in/in	Average value: 0.00117 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	20.0 - 29.0 MPa	2900 - 4210 psi	Average value: 25.7 MPa Grade Count:3
Tensile Strength, Yield	23.0 - 29.0 MPa	3340 - 4210 psi	Average value: 26.7 MPa Grade Count:3
Flexural Modulus	3.20 - 8.30 GPa	464 - 1200 ksi	Average value: 5.57 GPa Grade Count:3

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 - 50.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	12.2 - 27.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 36.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	68.0 - 81.0 $^\circ\text{C}$	154 - 178 $^\circ\text{F}$	Average value: 74.7 $^\circ\text{C}$ Grade Count:3

Processing Properties	Metric	English	Comments
Processing Temperature	200 $^\circ\text{C}$	392 $^\circ\text{F}$	Average value: 200 $^\circ\text{C}$ Grade Count:3

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