

Overview of materials for Polyphthalamide (PPA), Stainless Fiber, EMI

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Stainless Fiber Filled/EMI

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyphthalamide, Stainless Fiber, EMI". 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-Polyphthalamide-PPA-Stainless-Fiber-EMI.php

Physical Properties	Metric	English	Comments
Density	1.19 - 3.80 g/cc	0.0430 - 0.137 lb/in ³	Average value: 1.95 g/cc Grade Count:5
Water Absorption	0.200 %	0.200 %	Average value: 0.200 % Grade Count:3
Linear Mold Shrinkage	0.00300 - 0.00500 cm/cm	0.00300 - 0.00500 in/in	Average value: 0.00400 cm/cm Grade Count:4
Linear Mold Shrinkage, Transverse	0.0160 cm/cm	0.0160 in/in	Average value: 0.0160 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 - 159 MPa	7540 - 23100 psi	Average value: 116 MPa Grade Count:5
Elongation at Break	0.600 - 6.00 %	0.600 - 6.00 %	Average value: 2.22 % Grade Count:5
Modulus of Elasticity	2.90 - 12.4 GPa	420 - 1790 ksi	Average value: 8.85 GPa Grade Count:5
Flexural Yield Strength	100 - 262 MPa	14500 - 38000 psi	Average value: 213 MPa Grade Count:4
Flexural Modulus	2.90 - 11.7 GPa	420 - 1700 ksi	Average value: 9.21 GPa Grade Count:5
Izod Impact, Notched	0.500 - 0.600 J/cm	0.937 - 1.12 ft-lb/in	Average value: 0.567 J/cm Grade Count:3
Izod Impact, Unnotched	4.80 - 5.90 J/cm	8.99 - 11.1 ft-lb/in	Average value: 5.33 J/cm Grade Count:3
K (wear) Factor	10100 x 10 ⁻⁸ mm ³ /N-M	5000 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Average value: 10100 x 10 ⁻⁸ mm ³ /N-M Grade Count:3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	110 - 266 °C	230 - 511 °F	Average value: 227 °C Grade Count:4

Flammability: UL 94 Thermal Properties	HB Metric	HB English	Grade Count:3 Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.200 - 1000 ohm-cm	0.200 - 1000 ohm-cm	Average value: 257 ohm-cm Grade Count:4

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