

Overview of materials for Polypropylene with 10% Mica Filler

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Mica Filler

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polypropylene with 10% Mica Filler". Specific grades with primary filler content between 5% and 14% are included. 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-with-10-Mica-Filler.php

Physical Properties	Metric	English	Comments
Density	0.950 - 1.01 g/cc	0.0343 - 0.0365 lb/in ³	Average value: 0.967 g/cc Grade Count:14
Filler Content	12.0 %	12.0 %	Average value: 12.0 % Grade Count:4
Linear Mold Shrinkage	0.00800 - 0.0160 cm/cm	0.00800 - 0.0160 in/in	Average value: 0.0109 cm/cm Grade Count:14
Melt Flow	3.00 - 20.0 g/10 min	3.00 - 20.0 g/10 min	Average value: 12.8 g/10 min Grade Count:13
Ash	10.0 %	10.0 %	Average value: 10.0 % Grade Count:9

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	51.0 - 95.0	51.0 - 95.0	Average value: 78.2 Grade Count:10
Hardness, Shore D	69.0 - 75.0	69.0 - 75.0	Average value: 71.0 Grade Count:3
Tensile Strength, Ultimate	13.0 - 35.0 MPa	1890 - 5080 psi	Average value: 23.9 MPa Grade Count:12
Tensile Strength, Yield	17.0 - 37.0 MPa	2470 - 5370 psi	Average value: 29.8 MPa Grade Count:12
Elongation at Break	17.0 - 27.0 %	17.0 - 27.0 %	Average value: 21.2 % Grade Count:10
Elongation at Yield	5.00 - 8.00 %	5.00 - 8.00 %	Average value: 6.20 % Grade Count:10
Modulus of Elasticity	1.10 - 1.90 GPa	160 - 276 ksi	Average value: 1.64 GPa Grade Count:9
Flexural Yield Strength	21.0 - 48.0 MPa	3050 - 6960 psi	Average value: 36.6 MPa Grade Count:10
Flexural Modulus	1.10 - 6.40 GPa	160 - 928 ksi	Average value: 2.01 GPa Grade Count:15
Izod Impact, Notched	0.320 - 2.99 J/cm	0.600 - 5.60 ft-lb/in	Average value: 0.842 J/cm Grade Count:15

Mechanical Properties	Metric	English	Comments
	4.07 J	3.00 ft-lb	Average value: 2.82 J Grade Count:3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.4 - 121 °C	166 - 250 °F	Average value: 100 °C Grade Count:15
Deflection Temperature at 1.8 MPa (264 psi)	48.9 - 65.6 °C	120 - 150 °F	Average value: 58.3 °C Grade Count:14

Processing Properties	Metric	English	Comments
Nozzle Temperature	210 - 221 °C	410 - 430 °F	Average value: 216 °C Grade Count:3
Melt Temperature	193 - 232 °C	380 - 450 °F	Average value: 213 °C Grade Count:3
Mold Temperature	26.7 - 48.9 °C	80.0 - 120 °F	Average value: 37.8 °C Grade Count:3
Drying Temperature	65.6 - 82.2 °C	150 - 180 °F	Average value: 73.9 °C Grade Count:3
Moisture Content	0.0500 %	0.0500 %	Average value: 0.0500 % Grade Count:3
Injection Pressure	2.76 - 10.3 MPa	400 - 1500 psi	Average value: 6.55 MPa Grade Count:3

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