

Overview of materials for Polypropylene, Mineral Reinforced, Impact Modified

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced, Impact Modified

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polypropylene, Mineral Reinforced, Impact Modified". 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-Mineral-Reinforced-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	0.960 - 1.34 g/cc	0.0347 - 0.0484 lb/in ³	Average value: 1.07 g/cc Grade Count:42
Maximum Moisture Content	0.0100	0.0100	Average value: 0.0100 Grade Count:26
Linear Mold Shrinkage	0.00200 - 0.0400 cm/cm	0.00200 - 0.0400 in/in	Average value: 0.0108 cm/cm Grade Count:35
Linear Mold Shrinkage, Transverse	0.00700 - 0.0120 cm/cm	0.00700 - 0.0120 in/in	Average value: 0.00995 cm/cm Grade Count:4
Melt Flow	3.00 - 40.0 g/10 min	3.00 - 40.0 g/10 min	Average value: 15.9 g/10 min Grade Count:36

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	69.0 - 90.0	69.0 - 90.0	Average value: 86.0 Grade Count:7
Tensile Strength, Ultimate	14.0 - 26.0 MPa	2030 - 3770 psi	Average value: 18.9 MPa Grade Count:11
Tensile Strength, Yield	14.7 - 65.8 MPa	2130 - 9550 psi	Average value: 25.0 MPa Grade Count:31
Elongation at Break	4.00 - 300 %	4.00 - 300 %	Average value: 85.9 % Grade Count:39
Modulus of Elasticity	1.10 - 2.40 GPa	160 - 348 ksi	Average value: 1.78 GPa Grade Count:4
Flexural Yield Strength	15.7 - 97.2 MPa	2280 - 14100 psi	Average value: 35.2 MPa Grade Count:37
Flexural Modulus	1.02 - 4.55 GPa	148 - 660 ksi	Average value: 2.03 GPa Grade Count:39
Izod Impact, Notched	0.430 - 4.90 J/cm	0.806 - 9.19 ft-lb/in	Average value: 2.11 J/cm Grade Count:36
	>= 0.343233 J/cm	>= 0.643016 ft-lb/in	Average value: 0.537 J/cm Grade Count:17
	@Temperature -30.0 - -10.0 °C	@Temperature -22.0 - 14.0 °F	

Mechanical Properties	Metric	English	Comments
	= 0.343233 J/cm	= 0.643016 ft-lb/in	
	@Thickness 6.40 - 6.40 mm	@Thickness 0.252 - 0.252 in	Average value: 0.537 J/cm Grade Count:17
Izod Impact, Unnotched	2.08 J/cm - NB	3.90 ft-lb/in - NB	Average value: 5.69 J/cm Grade Count:7
Charpy Impact Unnotched	3.80 - 1000 J/cm ²	18.1 - 4760 ft-lb/in ²	Average value: 4.90 J/cm ² Grade Count:6
	1.40 - 999.9 J/cm ²	6.66 - 4759 ft-lb/in ²	Average value: 1.40 J/cm ² Grade Count:3
	@Temperature -40.0 - -20.0 °C	@Temperature -40.0 - -4.00 °F	
Charpy Impact, Notched	0.300 - 7.50 J/cm ²	1.43 - 35.7 ft-lb/in ²	Average value: 2.89 J/cm ² Grade Count:5
	2.00 - 4.80 J/cm ²	9.52 - 22.8 ft-lb/in ²	Average value: 3.40 J/cm ² Grade Count:2
	@Temperature -20.0 - -20.0 °C	@Temperature -4.00 - -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 - 145 °C	169 - 293 °F	Average value: 117 °C Grade Count:35
Deflection Temperature at 1.8 MPa (264 psi)	51.0 - 146 °C	124 - 295 °F	Average value: 69.8 °C Grade Count:13
Vicat Softening Point	100 - 140 °C	212 - 284 °F	Average value: 120 °C Grade Count:4
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:5

Processing Properties	Metric	English	Comments
Nozzle Temperature	210 - 230 °C	410 - 446 °F	Average value: 220 °C Grade Count:26
Melt Temperature	190 - 250 °C	374 - 482 °F	Average value: 212 °C Grade Count:31
Mold Temperature	40.0 - 70.0 °C	104 - 158 °F	Average value: 50.7 °C Grade Count:30
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Average value: 75.4 °C Grade Count:28

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China