

Overview of materials for Ethylene-Methyl Acrylate Copolymer, Molding Grade

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate , Ethylene-Methyl Acrylate Copolymer, Molding Grade

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Ethylene-Methyl Acrylate Copolymer, Molding Grade". 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-Ethylene-Methyl-Acrylate-Copolymer-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.927 - 0.945 g/cc	0.0335 - 0.0341 lb/in ³	Average value: 0.939 g/cc Grade Count:17
Methyl Acrylate Content	16.5 - 24.0 %	16.5 - 24.0 %	Average value: 21.5 % Grade Count:7
Melt Flow	0.400 - 135 g/10 min	0.400 - 135 g/10 min	Average value: 12.7 g/10 min Grade Count:17

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75.0 - 98.0	75.0 - 98.0	Average value: 84.8 Grade Count:15
Hardness, Shore D	19.0 - 47.0	19.0 - 47.0	Average value: 32.8 Grade Count:15
Tensile Strength, Ultimate	2.83 - 14.0 MPa	410 - 2030 psi	Average value: 10.7 MPa Grade Count:15
Elongation at Break	575 - 860 %	575 - 860 %	Average value: 751 % Grade Count:15
Modulus of Elasticity	0.0180 - 0.0800 GPa	2.61 - 11.6 ksi	Average value: 0.0474 GPa Grade Count:9
Flexural Modulus	0.0217 - 0.0572 GPa	3.15 - 8.30 ksi	Average value: 0.0336 GPa Grade Count:5

Thermal Properties	Metric	English	Comments
Melting Point	72.2 - 102 °C	162 - 216 °F	Average value: 87.9 °C Grade Count:17
Vicat Softening Point	37.2 - 78.0 °C	99.0 - 172 °F	Average value: 53.1 °C Grade Count:17

Processing Properties	Metric	English	Comments
Adapter Temperature	180 - 290 °C	356 - 554 °F	Average value: 240 °C Grade Count:9
Die Temperature	180 - 290 °C	356 - 554 °F	Average value: 240 °C Grade Count:9

Melt Temperature Processing Properties	150 - 290 °C Metric	302 - 554 °F English	Average value: 194 °C Grade Count:9 Comments
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