

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

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

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	0.930 - 0.948 g/cc	0.0336 - 0.0342 lb/in ³	Average value: 0.940 g/cc Grade Count:8
Viscosity	1.10e+6 - 1.10e+6 cP	1.10e+6 - 1.10e+6 cP	Average value: 1.10e+6 cP Grade Count:1
	@Temperature 190 - 190 °C	@Temperature 374 - 374 °F	
	1.10e+6 - 1.10e+6 cP	1.10e+6 - 1.10e+6 cP	Average value: 1.10e+6 cP Grade Count:1
	@Shear Rate 50.0 - 50.0 1/s	@Shear Rate 50.0 - 50.0 1/s	
Environmental Stress Crack Resistance	>= 360 hour	>= 360 hour	Average value: 360 hour Grade Count:1
	@Temperature 50.0 - 50.0 °C	@Temperature 122 - 122 °F	
Methyl Acrylate Content	16.5 - 26.0 %	16.5 - 26.0 %	Average value: 19.3 % Grade Count:4
Melt Flow	0.400 - 9.00 g/10 min	0.400 - 9.00 g/10 min	Average value: 2.97 g/10 min Grade Count:14

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 - 596 %	350 - 596 %	Average value: 449 % Grade Count:7
Film Elongation at Break, TD	450 - 790 %	450 - 790 %	Average value: 584 % Grade Count:7
Secant Modulus, MD	0.0496 - 0.165 GPa	7.20 - 23.9 ksi	Average value: 0.108 GPa Grade Count:7
Secant Modulus, TD	0.0517 - 0.171 GPa	7.50 - 24.8 ksi	Average value: 0.105 GPa Grade Count:7
Elmendorf Tear Strength, MD	0.787 - 5.51 g/micron	20.0 - 140 g/mil	Average value: 4.32 g/micron Grade Count:5
Elmendorf Tear Strength, TD	3.94 - 7.48 g/micron	100 - 190 g/mil	Average value: 5.68 g/micron Grade Count:5
Dart Drop	3.90 - 10.2 g/micron	99.1 - 260 g/mil	Average value: 7.35 g/micron Grade

Mechanical Properties	Metric	English	Count:3 Comments
Dart Drop Test	5.90 - 370 g	0.0130 - 0.816 lb	Average value: 141 g Grade Count:4
Seal Strength	1400 - 2700 g/25 mm	1400 - 2700 g/in	Average value: 2280 g/25 mm Grade Count:4
Hot Tack Strength	1400 - 1800 g/25 mm	1400 - 1800 g/in	Average value: 1720 g/25 mm Grade Count:5
Film Tensile Strength at Break, MD	20.0 - 38.6 MPa	2900 - 5600 psi	Average value: 27.6 MPa Grade Count:7
Film Tensile Strength at Break, TD	15.9 - 36.5 MPa	2300 - 5290 psi	Average value: 27.2 MPa Grade Count:7

Thermal Properties	Metric	English	Comments
Melting Point	72.0 - 104 °C	162 - 219 °F	Average value: 89.8 °C Grade Count:14
Vicat Softening Point	45.0 - 95.0 °C	113 - 203 °F	Average value: 73.0 °C Grade Count:13

Optical Properties	Metric	English	Comments
Haze	2.50 - 3.50 %	2.50 - 3.50 %	Average value: 2.92 % Grade Count:4
Gloss	55.0 - 82.0 %	55.0 - 82.0 %	Average value: 65.5 % Grade Count:4

Processing Properties	Metric	English	Comments
Nozzle Temperature	180 - 300 °C	356 - 572 °F	Average value: 214 °C Grade Count:9
Melt Temperature	175 - 315 °C	347 - 599 °F	Average value: 220 °C Grade Count:9

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