

Overview of materials for Ethylene Vinyl Acetate Copolymer (EVA), Molded/Extruded

Category : Polymer , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate; Molded/Extruded

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Ethylene Vinyl Acetate; Molded/Extruded". 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-Vinyl-Acetate-Copolymer-EVA-MoldedExtruded.php

Physical Properties	Metric	English	Comments
Density	0.923 - 1.21 g/cc	0.0333 - 0.0437 lb/in ³	Average value: 0.944 g/cc Grade Count:94
Apparent Bulk Density	0.545 - 0.577 g/cc	0.0197 - 0.0208 lb/in ³	Average value: 0.569 g/cc Grade Count:4
Particle Size	5.00 - 1000 µm	5.00 - 1000 µm	Average value: 494 µm Grade Count:7
Viscosity	9300 - 9300 cP @Temperature 190 - 190 °C	9300 - 9300 cP @Temperature 374 - 374 °F	Average value: 9300 cP Grade Count:1
Environmental Stress Crack Resistance	500 - 1000 hour	500 - 1000 hour	Average value: 667 hour Grade Count:6
Vinyl Acetate Content	2.00 - 40.0 %	2.00 - 40.0 %	Average value: 19.4 % Grade Count:79
Melt Flow	0.150 - 850 g/10 min	0.150 - 850 g/10 min	Average value: 62.6 g/10 min Grade Count:103

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	53.0 - 98.0	53.0 - 98.0	Average value: 85.8 Grade Count:62
Hardness, Shore D	15.0 - 67.0	15.0 - 67.0	Average value: 36.7 Grade Count:56
Tensile Strength, Ultimate	1.90 - 26.8 MPa	276 - 3890 psi	Average value: 12.7 MPa Grade Count:70
	1.40 - 51.0 MPa @Temperature -20.0 - 49.0 °C	203 - 7400 psi @Temperature -4.00 - 120 °F	Average value: 19.8 MPa Grade Count:11
Tensile Strength, Yield	2.50 - 28.3 MPa	363 - 4110 psi	Average value: 7.13 MPa Grade Count:24
Elongation at Break	50.0 - 1300 %	50.0 - 1300 %	Average value: 653 % Grade Count:81

Mechanical Properties	400 - 900 % Metric	400 - 900 % English	Comments Average value: 607 % Grade Count:11
	@Temperature -20.0 - 49.0 °C	@Temperature -4.00 - 120 °F	
Modulus of Elasticity	0.0110 - 0.700 GPa	1.60 - 102 ksi	Average value: 0.0939 GPa Grade Count:21
	0.0460 - 0.345 GPa	6.67 - 50.0 ksi	Average value: 0.157 GPa Grade Count:11
	@Temperature -20.0 - - 20.0 °C	@Temperature -4.00 - - 4.00 °F	
Flexural Modulus	0.00190 - 0.345 GPa	0.276 - 50.0 ksi	Average value: 0.0630 GPa Grade Count:62
	0.00620 - 0.503 GPa	0.899 - 73.0 ksi	Average value: 0.128 GPa Grade Count:11
	@Temperature -20.0 - 49.0 °C	@Temperature -4.00 - 120 °F	
Secant Modulus	0.0210 - 1.25 GPa	3.05 - 181 ksi	Average value: 0.496 GPa Grade Count:4
Tensile Impact Strength	2.50 - 945 kJ/m²	1.19 - 450 ft-lb/in²	Average value: 536 kJ/m² Grade Count:17
Compression Set	39.0 - 60.0 %	39.0 - 60.0 %	Average value: 50.1 % Grade Count:11
	70.0 - 100 %	70.0 - 100 %	Average value: 89.9 % Grade Count:11
	@Temperature 70.0 - 70.0 °C	@Temperature 158 - 158 °F	

Thermal Properties	Metric	English	Comments
Melting Point	52.0 - 104 °C	126 - 219 °F	Average value: 85.8 °C Grade Count:67
Vicat Softening Point	23.0 - 127 °C	73.4 - 261 °F	Average value: 64.9 °C Grade Count:66
Brittleness Temperature	-100 - -40.0 °C	-148 - -40.0 °F	Average value: -84.7 °C Grade Count:42
Flammability, UL94	HB	HB	Grade Count:3
Ring & Ball Softening Point	76.0 - 220 °C	169 - 428 °F	Average value: 113 °C Grade Count:15

Optical Properties	Metric	English	Comments
Transmission, Visible	80.0 %	80.0 %	Average value: 80.0 % Grade Count:6

Electrical Properties	Metric	English	Comments
Electrical Resistivity	400 - 1.00e+15 ohm-cm	400 - 1.00e+15 ohm-cm	Average value: 7.50e+14 ohm-cm Grade Count:4
Comparative Tracking Index	600 V	600 V	Average value: 600 V Grade Count:3

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	121 - 204 °C	250 - 399 °F	Average value: 163 °C Grade Count:12

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