

Overview of materials for Ionomer, Film Grade

Category : Polymer , Film , Thermoplastic , Ionomer , Ionomer, Film Grade

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	0.940 - 0.950 g/cc	0.0340 - 0.0343 lb/in ³	Average value: 0.941 g/cc Grade Count:27
Melt Flow	0.700 - 14.0 g/10 min	0.700 - 14.0 g/10 min	Average value: 3.43 g/10 min Grade Count:27

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	300 - 500 %	300 - 500 %	Average value: 388 % Grade Count:17
Film Elongation at Break, TD	300 - 475 %	300 - 475 %	Average value: 398 % Grade Count:17
Secant Modulus, MD	0.0500 - 0.290 GPa	7.25 - 42.1 ksi	Average value: 0.212 GPa Grade Count:17
Secant Modulus, TD	0.0450 GPa	6.53 ksi	Average value: 0.0450 GPa Grade Count:17
Elmendorf Tear Strength, MD	0.300 - 8.30 g/micron	7.62 - 211 g/mil	Average value: 2.01 g/micron Grade Count:17
Elmendorf Tear Strength, TD	0.300 - 11.0 g/micron	7.62 - 279 g/mil	Average value: 2.27 g/micron Grade Count:17
Dart Drop	6.00 - 22.1 g/micron	152 - 561 g/mil	Average value: 10.3 g/micron Grade Count:16
Seal Strength	2000 - 3400 g/25 mm	2000 - 3400 g/in	Average value: 2530 g/25 mm Grade Count:21
Hot Tack Strength	1800 - 3000 g/25 mm	1800 - 3000 g/in	Average value: 2200 g/25 mm Grade Count:21
Film Tensile Strength at Break, MD	24.0 - 41.0 MPa	3480 - 5950 psi	Average value: 32.0 MPa Grade Count:17
Film Tensile Strength at Break, TD	26.5 - 40.7 MPa	3840 - 5900 psi	Average value: 33.8 MPa Grade Count:17

Thermal Properties	Metric	English	Comments
			Average value: 90.3 °C Grade

Melting Point Thermal Properties	51.0 - 101 °C Metric	124 - 214 °F English	Count:27 Comments
Vicat Softening Point	56.0 - 79.0 °C	133 - 174 °F	Average value: 70.1 °C Grade Count:27

Optical Properties	Metric	English	Comments
Haze	1.30 - 11.5 %	1.30 - 11.5 %	Average value: 4.30 % Grade Count:17
Gloss	20.0 - 104 %	20.0 - 104 %	Average value: 60.3 % Grade Count:17

Processing Properties	Metric	English	Comments
Processing Temperature	260 - 285 °C	500 - 545 °F	Average value: 280 °C Grade Count:5
Adapter Temperature	185 - 235 °C	365 - 455 °F	Average value: 205 °C Grade Count:5
Die Temperature	185 - 235 °C	365 - 455 °F	Average value: 205 °C Grade Count:5
Melt Temperature	160 - 304 °C	320 - 579 °F	Average value: 200 °C Grade Count:27

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