

Overview of materials for Linear Low Density Polyethylene (LLDPE)/Octene, Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Octene, Film

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Linear Low Density Polyethylene (LLDPE)/Octene, Film". 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-Linear-Low-Density-Polyethylene-LLDPEOctene-Film.php

Physical Properties	Metric	English	Comments
Density	0.916 - 0.925 g/cc	0.0331 - 0.0334 lb/in ³	Average value: 0.920 g/cc Grade Count:34
Thickness	8.00 - 150 microns	0.315 - 5.91 mil	Average value: 33.9 microns Grade Count:20
Melt Flow	0.650 - 5.90 g/10 min	0.650 - 5.90 g/10 min	Average value: 1.22 g/10 min Grade Count:34

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.50 - 12.0 MPa	1230 - 1740 psi	Average value: 9.49 MPa Grade Count:28
Film Tensile Strength at Yield, TD	8.30 - 12.0 MPa	1200 - 1740 psi	Average value: 9.92 MPa Grade Count:28
Film Elongation at Break, MD	440 - 1220 %	440 - 1220 %	Average value: 633 % Grade Count:34
Film Elongation at Break, TD	647 - 1570 %	647 - 1570 %	Average value: 859 % Grade Count:34
Secant Modulus, MD	0.116 - 0.230 GPa	16.8 - 33.4 ksi	Average value: 0.171 GPa Grade Count:33
Secant Modulus, TD	0.132 - 0.270 GPa	19.1 - 39.2 ksi	Average value: 0.189 GPa Grade Count:33
Coefficient of Friction	0.110 - 1.00	0.110 - 1.00	Average value: 0.438 Grade Count:16
Elmendorf Tear Strength MD	140 - 1210 g	140 - 1210 g	Average value: 353 g Grade Count:18
Elmendorf Tear Strength TD	422 - 1350 g	422 - 1350 g	Average value: 620 g Grade Count:18
Elmendorf Tear Strength, MD	5.60 - 24.0 g/micron	142 - 610 g/mil	Average value: 14.2 g/micron Grade Count:34
Elmendorf Tear Strength, TD	16.9 - 31.2 g/micron	429 - 792 g/mil	Average value: 23.3 g/micron Grade Count:34
Dart Drop	4.50 - 29.0 g/micron	114 - 737 g/mil	Average value: 10.5 g/micron Grade Count:20

Mechanical Properties	Metric	English	Comments
Dart Drop Test	90.0 - 909 g	0.198 - 2.00 lb	Average value: 336 g Grade Count:24
Film Tensile Strength at Break, MD	28.3 - 61.0 MPa	4100 - 8850 psi	Average value: 46.2 MPa Grade Count:34
Film Tensile Strength at Break, TD	21.0 - 48.0 MPa	3050 - 6960 psi	Average value: 38.8 MPa Grade Count:34
Heat Seal Strength Initiation Temperature	100 °C	212 °F	Average value: 100 °C Grade Count:3

Thermal Properties	Metric	English	Comments
Melting Point	117 - 123 °C	243 - 253 °F	Average value: 120 °C Grade Count:8
Vicat Softening Point	95.0 - 110 °C	203 - 230 °F	Average value: 103 °C Grade Count:10
Brittleness Temperature	-70.0 °C	-94.0 °F	Average value: -70.0 °C Grade Count:9

Optical Properties	Metric	English	Comments
Haze	0.500 - 34.0 %	0.500 - 34.0 %	Average value: 10.2 % Grade Count:32
Gloss	33.0 - 121 %	33.0 - 121 %	Average value: 68.7 % Grade Count:32
Transmission, Visible	90.0 %	90.0 %	Average value: 90.0 % Grade Count:8

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 230 °C	356 - 446 °F	Average value: 213 °C Grade Count:12
Die Opening	0.0889 - 0.216 cm	0.0350 - 0.0850 in	Average value: 0.151 cm Grade Count:4

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