

## Overview of materials for Linear Low Density Polyethylene (LLDPE), Compounding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Compounding Resin

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Linear Low Density Polyethylene (LLDPE), Compounding Resin". 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-LLDPE-Compounding-Resin.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Linear-Low-Density-Polyethylene-LLDPE-Compounding-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.890 - 0.926 g/cc	0.0322 - 0.0335 lb/in <sup>3</sup>	Average value: 0.921 g/cc Grade Count:22
Particle Size	400 - 1200 µm	400 - 1200 µm	Average value: 771 µm Grade Count:7
Environmental Stress Crack Resistance	1.00 - 1000 hour	1.00 - 1000 hour	Average value: 177 hour Grade Count:6
Melt Flow	1.40 - 70.0 g/10 min	1.40 - 70.0 g/10 min	Average value: 24.2 g/10 min Grade Count:27

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	41.0 - 51.0	41.0 - 51.0	Average value: 46.4 Grade Count:14
Tensile Strength, Ultimate	7.45 - 21.0 MPa	1080 - 3050 psi	Average value: 13.1 MPa Grade Count:7
Tensile Strength, Yield	10.0 - 23.0 MPa	1450 - 3340 psi	Average value: 13.3 MPa Grade Count:9
Elongation at Break	40.0 - 800 %	40.0 - 800 %	Average value: 326 % Grade Count:10
Flexural Modulus	0.200 - 0.480 GPa	29.0 - 69.6 ksi	Average value: 0.287 GPa Grade Count:5
Secant Modulus	0.230 - 0.448 GPa	33.4 - 65.0 ksi	Average value: 0.354 GPa Grade Count:5
Izod Impact, Notched	4.43 - 5.00 J/cm	8.30 - 9.37 ft-lb/in	Average value: 4.81 J/cm Grade Count:3
Dart Drop, Total Energy	29.0 - 37.0 J @Temperature -40.0 - - 40.0 °C	21.4 - 27.3 ft-lb @Temperature -40.0 - - 40.0 °F	Average value: 33.0 J Grade Count:2

Thermal Properties	Metric	English	Comments
Melting Point	112 - 124 °C	234 - 255 °F	Average value: 121 °C Grade Count:16

Thermal Properties	Metric	English	Comments
Vicat Softening Point	88.0 - 94.0 °C	190 - 201 °F	Average value: 91.8 °C Grade Count:10
Brittleness Temperature	-80.0 - -68.0 °C	-112 - -90.4 °F	Average value: -74.3 °C Grade Count:7

Processing Properties	Metric	English	Comments
Melt Temperature	160 - 230 °C	320 - 446 °F	Average value: 199 °C Grade Count:3

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