

Overview of materials for Linear Low Density Polyethylene (LLDPE), Extrusion Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Extrusion Grade

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	0.916 - 0.944 g/cc	0.0331 - 0.0341 lb/in ³	Average value: 0.922 g/cc Grade Count:20
Environmental Stress Crack Resistance	1000 - 2500 hour	1000 - 2500 hour	Average value: 1560 hour Grade Count:6
Melt Flow	0.110 - 24.0 g/10 min	0.110 - 24.0 g/10 min	Average value: 4.63 g/10 min Grade Count:20

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51.0 - 58.0	51.0 - 58.0	Average value: 54.6 Grade Count:8
Tensile Strength, Ultimate	11.7 - 20.7 MPa	1700 - 3000 psi	Average value: 16.1 MPa Grade Count:7
Tensile Strength, Yield	7.58 - 17.9 MPa	1100 - 2600 psi	Average value: 11.3 MPa Grade Count:8
Elongation at Break	340 - 900 %	340 - 900 %	Average value: 659 % Grade Count:12
Flexural Modulus	0.276 - 0.480 GPa	40.0 - 69.6 ksi	Average value: 0.346 GPa Grade Count:11
Izod Impact, Notched	6.80 - 100 J/cm	12.7 - 187 ft-lb/in	Average value: 6.80 J/cm Grade Count:3
	NB - NB	NB - NB	Grade Count:2
	@Temperature -40.0 - -40.0 °C	@Temperature -40.0 - -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	48.0 - 51.0 °C	118 - 124 °F	Average value: 50.0 °C Grade Count:3
Vicat Softening Point	88.0 - 104 °C	190 - 219 °F	Average value: 95.9 °C Grade Count:7
Brittleness Temperature			Average value: -70.4 °C Grade

Thermal Properties	-76.0 - -42.0 °C Metric	-105 - -43.6 °F English	Count:10 Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	2.27 - 2.50	2.27 - 2.50	Average value: 2.36 Grade Count:3
Dissipation Factor	0.0000600 - 0.000400	0.0000600 - 0.000400	Average value: 0.000187 Grade Count:3
Processing Properties	Metric	English	Comments
Melt Temperature	149 - 232 °C	300 - 450 °F	Average value: 193 °C Grade Count:3

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