

Overview of materials for Low Density Polyethylene (LDPE), Sheet/Profile extrusions

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Sheet/Profile extrusions

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Low Density Polyethylene (LDPE), Sheet/Profile extrusions". 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-Low-Density-Polyethylene-LDPE-SheetProfile-extrusions.php

Physical Properties	Metric	English	Comments
Density	0.919 - 0.930 g/cc	0.0332 - 0.0336 lb/in ³	Average value: 0.922 g/cc Grade Count:5
Melt Flow	1.00 - 6.00 g/10 min	1.00 - 6.00 g/10 min	Average value: 2.90 g/10 min Grade Count:5

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50.0 - 55.0	50.0 - 55.0	Average value: 51.7 Grade Count:3
Tensile Strength, Ultimate	11.0 - 14.0 MPa	1600 - 2030 psi	Average value: 12.5 MPa Grade Count:4
Tensile Strength, Yield	10.0 - 14.0 MPa	1450 - 2030 psi	Average value: 11.2 MPa Grade Count:4
Elongation at Break	500 - 600 %	500 - 600 %	Average value: 533 % Grade Count:3
Modulus of Elasticity	0.221 - 0.483 GPa	32.1 - 70.1 ksi	Average value: 0.315 GPa Grade Count:3

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 - 107 °C	194 - 225 °F	Average value: 96.0 °C Grade Count:3

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