

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

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

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	0.913 - 0.945 g/cc	0.0330 - 0.0341 lb/in ³	Average value: 0.935 g/cc Grade Count:49
Environmental Stress Crack Resistance	24.0 - 1000 hour	24.0 - 1000 hour	Average value: 522 hour Grade Count:32
	28.0 - 400 hour	28.0 - 400 hour	Average value: 263 hour Grade Count:5
	@Temperature 50.0 - 50.0 °C	@Temperature 122 - 122 °F	
	28.0 - 400 hour	28.0 - 400 hour	Average value: 263 hour Grade Count:5
	@Thickness 2.00 - 2.00 mm	@Thickness 0.0787 - 0.0787 in	
Melt Flow	1.00 - 10.4 g/10 min	1.00 - 10.4 g/10 min	Average value: 5.04 g/10 min Grade Count:49

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	17.0 - 30.1 MPa	2470 - 4370 psi	Average value: 24.5 MPa Grade Count:6
Tensile Strength, Yield	10.0 - 22.8 MPa	1450 - 3300 psi	Average value: 17.9 MPa Grade Count:45
Elongation at Break	239 - 1000 %	239 - 1000 %	Average value: 662 % Grade Count:19
Elongation at Yield	11.0 - 20.6 %	11.0 - 20.6 %	Average value: 16.0 % Grade Count:31
Flexural Modulus	0.245 - 1.05 GPa	35.5 - 152 ksi	Average value: 0.676 GPa Grade Count:43
Dynatup @ -30°C	61.0 - 81.3 J	45.0 - 60.0 ft-lb	Average value: 71.2 J Grade Count:6

Thermal Properties	Metric	English	Comments
Melting Point	104 - 127 °C	220 - 261 °F	Average value: 125 °C Grade Count:28

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	49.0 - 62.0 °C	120 - 144 °F	Average value: 56.1 °C Grade Count:36
Deflection Temperature at 1.8 MPa (264 psi)	37.0 - 41.0 °C	98.6 - 106 °F	Average value: 38.5 °C Grade Count:25
Vicat Softening Point	91.0 - 117 °C	196 - 243 °F	Average value: 110 °C Grade Count:9
Brittleness Temperature	-75.0 - -70.0 °C	-103 - -94.0 °F	Average value: -70.6 °C Grade Count:8
Flammability, UL94	V-2	V-2	Grade Count:3
Oxygen Index	26.0 %	26.0 %	Average value: 26.0 % Grade Count:3

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