

Dow LDPE 4012M Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

DOW LDPE 4012M resin is a broad molecular weight distribution homopolymer designed to provide good impact strength, excellent flexibility and high stress crack resistance for housewares, toys and general purpose applications. This general purpose molding resin demonstrates good processability over a wide range of molding conditions. It complies with U.S. FDA regulation 21 CFR 177.1520 (c) 2.1 for food contact applications. The regulation should be consulted for complete details. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-LDPE-4012M-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.916 g/cc	0.0331 lb/in ³	
Melt Flow	12 g/10 min @Load 2.16 kg	12 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	10.6 MPa	1540 psi	
Tensile Strength, Yield	9.17 MPa	1330 psi	
Elongation at Break	100 %	100 %	
Modulus of Elasticity	0.153 GPa	22.2 ksi	Molded Sample 2% Secant Modulus
Flexural Modulus	0.237 GPa	34.4 ksi	
Izod Impact, Notched (ISO)	27.0 kJ/m ² @Temperature -50.0 °C	12.8 ft-lb/in ² @Temperature -58.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C	194 °F	

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