

Dow 4012 Low Density Polyethylene (LDPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Polyethylene 4012 is used for a variety of applications such as condiment packaging, dry and moist foods packaging, sugar pouches, lidding stock and medical packaging. Information provided by Dow

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D792
Water Vapor Transmission	27.9 g/m ² /day	1.80 g/100 in ² /day	at 1 atm; 1.0 mil coating onto 50 lb Kraft paper; ASTM F1249
Thickness	>= 7.62 microns	>= 0.300 mil	Coating Thickness; Extrusion Coating Processability; Dow Method
Melt Index of Compound	12 g/10 min	12 g/10 min	ASTM D1238
Neck In	4.80 cm	1.89 in	610°F and 1.0 mil; Extrusion Coating Processability; Dow Method
Coating Weight	>= 6.40 g/m ²	>= 4.00 lb/ream	Extrusion Coating Processability; Dow Method

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	0.60	0.60	(film/film); 1.0 mil coating onto 50 lb Kraft paper; ASTM D1894
Heat Seal Strength Initiation Temperature	105 °C	221 °F	1 lb/in heat seal strength; 1.0 mil coating onto 50 lb Kraft paper; Dow Method

Thermal Properties	Metric	English	Comments
Melting Point	107 °C	225 °F	Dow Method (DSC)
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	315 - 327 °C	599 - 621 °F	Extrusion Coating Processability

Descriptive Properties	Value	Comments
Line Speed fpm, max	1610	Dow Method

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