

## Dow 4010 Low Density Polyethylene (LDPE)

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

### Material Notes:

Polyethylene 4010 is used in flexible packaging and paperboard coating applications such as liquid/juice, laminate tube, condiment pouches, 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-4010-Low-Density-Polyethylene-LDPE.php](http://www.lookpolymers.com/polymer_Dow-4010-Low-Density-Polyethylene-LDPE.php)

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in <sup>3</sup>	ASTM D792
Water Vapor Transmission	27.9 g/m <sup>2</sup> /day	1.80 g/100 in <sup>2</sup> /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	10 g/10 min	10 g/10 min	ASTM D1238
Neck In	3.50 cm	1.38 in	610°F and 1.0 mil; Extrusion Coating Processability; Dow Method
Coating Weight	>= 8.00 g/m <sup>2</sup>	>= 5.00 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	106 °C	223 °F	Dow Method (DSC)
Vicat Softening Point	87.0 °C	189 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	315 - 332 °C	599 - 630 °F	Extrusion Coating Processability

Descriptive Properties	Value	Comments
Line Speed fpm, max	1400	Dow Method

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