

## Carmel Olefins IPETHENE® 100 Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Extrusion Grade

### Material Notes:

IPETHENE® 100 is a low density polyethylene extrusion grade. It exhibits good impact and puncture resistance, good processability and good ESCR. APPLICATIONS IPETHENE® 100 is used for production of irrigation pipe systems, 80 to 250 µm films for heavy duty and shrink packaging, greenhouses, net coverings, and industrial applications. Other extrusion applications are pipe systems, sheets, tubes, bottles, containers, nets and various profiles.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Carmel-Olefins-IPETHENE-100-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Carmel-Olefins-IPETHENE-100-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ISO 1183-A
ESCR 10% Igepal®	18 hour	18 hour	F50; ASTM D1693
Thickness	100 microns	3.94 mil	
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 %	350 %	ISO 1184
Film Elongation at Break, TD	450 %	450 %	ISO 1184
Elmendorf Tear Strength MD	300 g	300 g	ISO 6283-2
Elmendorf Tear Strength TD	500 g	500 g	ISO 6283-2
Elmendorf Tear Strength, MD	3.00 g/micron	76.2 g/mil	ISO 6283-2
Elmendorf Tear Strength, TD	5.00 g/micron	127 g/mil	ISO 6283-2
Dart Drop	6.30 g/micron	160 g/mil	F50; ISO 7765-A
Dart Drop Test	630 g	1.39 lb	F50; ISO 7765-A
Film Tensile Strength at Break, MD	22.0 MPa	3190 psi	ISO 1184
Film Tensile Strength at Break, TD	19.0 MPa	2760 psi	ISO 1184

Processing Properties	Metric	English	Comments
Melt Temperature	220 °C	428 °F	
Blow-up Ratio (BUR)	2.0	2.0	

Processing Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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