

Carmel Olefins IPETHENE® 323 Low Density Polyethylene

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

Material Notes:

IPETHENE® 323 is a general purpose low density polyethylene film extrusion grade. It contains a high level of anti-blocking and slip additives. It is BHT free. It exhibits a good balance between mechanical and optical properties. APPLICATIONS IPETHENE® 323 is mainly used for the production of 25 to 80 µm films for the applications of general purpose films, Form-Fill-Seal packaging, and packaging of textile products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Carmel-Olefins-IPETHENE-323-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183-A
Thickness	50.0 microns	1.97 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	230 %	230 %	ISO 1184
Film Elongation at Break, TD	500 %	500 %	ISO 1184
Elmendorf Tear Strength MD	600 g	600 g	ISO 6283-2
Elmendorf Tear Strength TD	250 g	250 g	ISO 6283-2
Elmendorf Tear Strength, MD	12.0 g/micron	305 g/mil	ISO 6283-2
Elmendorf Tear Strength, TD	5.00 g/micron	127 g/mil	ISO 6283-2
Dart Drop	2.50 g/micron	63.5 g/mil	F50; ISO 7765-A
Dart Drop Test	125 g	0.276 lb	F50; ISO 7765-A
Film Tensile Strength at Break, MD	22.0 MPa	3190 psi	ISO 1184
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	ISO 1184

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	65 %	65 %	45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	160 °C	320 °F	
Blow-up Ratio (BUR)	2.0	2.0	

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