

Carmel Olefins IPETHENE® 4203 Low Density Polyethylene

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

Material Notes:

IPETHENE® 4203 is a low density polyethylene extrusion grade. It exhibits good impact and puncture resistance, very good bubble stability in thick-gauge blown film processing, and excellent ESCR. APPLICATIONS IPETHENE® 4203 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Carmel-Olefins-IPETHENE-4203-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183-A
ESCR 10% Igepal®	20 hour	20 hour	F50; ASTM D1693
Thickness	100 microns	3.94 mil	
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 190 °C	0.20 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	330 %	330 %	ISO 1184
Film Elongation at Break, TD	480 %	480 %	ISO 1184
Elmendorf Tear Strength MD	250 g	250 g	ISO 6283-2
Elmendorf Tear Strength TD	500 g	500 g	ISO 6283-2
Elmendorf Tear Strength, MD	2.50 g/micron	63.5 g/mil	ISO 6283-2
Elmendorf Tear Strength, TD	5.00 g/micron	127 g/mil	ISO 6283-2
Dart Drop	6.50 g/micron	165 g/mil	F50; ISO 7765-A
Dart Drop Test	650 g	1.43 lb	F50; ISO 7765-A
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	ISO 1184
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 1184

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

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