

Chevron Phillips MarFlex® 4553 Polyethylene; LDPE

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

Material Notes:

Low density polyethylene. This LDPE is tailored for cast film applications that require: High speed extrusion Low neck-in Good drawdown Edge tear resistance Low coefficient of friction Applications: Typical cast film applications include: Personal care General purpose Information provided by Phillips

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-MarFlex-4553-Polyethylene-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D-1505
Water Vapor Transmission	13.0 g/m ² /day	0.837 g/100 in ² /day	Cast Film at 1.25 mil; ASTM F-1249
Oxygen Transmission Rate	6200 cc/m ² /day	399 cc/100 in ² /day	Cast Film at 1.25 mil; ASTM D-3985
Melt Index of Compound	4.1 g/10 min @Load 2.16 kg, Temperature 190 °C	4.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D-1238
Antiblock Level	0.00 ppm	0.00 ppm	
Slip Level	650 ppm	650 ppm	

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.13	0.13	Cast Film at 1.25 mil; ASTM D-1894
Elmendorf Tear Strength, MD	12.6 g/micron	320 g/mil	Cast Film at 1.25 mil; ASTM D-1922
Elmendorf Tear Strength, TD	4.92 g/micron	125 g/mil	Cast Film at 1.25 mil; ASTM D-1922
Dart Drop	2.56 g/micron	65.0 g/mil	Cast Film at 1.25 mil; ASTM D-1709

Thermal Properties	Metric	English	Comments
Melting Point	109 °C	228 °F	ASTM D-3418
Vicat Softening Point	99.0 °C	210 °F	ASTM D-1525

Optical Properties	Metric	English	Comments
Haze	9.5 %	9.5 %	Cast Film at 1.25 mil; ASTM D-1003
Gloss	84 %	84 %	60°, Cast Film at 1.25 mil; ASTM D-2457

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