

Chevron Phillips Marlex® 4571

Low density polyethylene. This LDPE is tailored for cast film applications that require:

- High speed extrusion

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	Blown Film at 1.25 mil; ASTM F-1249
Oxygen Transmission Rate	6100 cc/m ² /day	393 cc/100 in ² /day	Blown 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	0.00 ppm	0.00 ppm	

Mechanical Properties	Metric	English	Comments
Coefficient of Friction	0.75	0.75	Blown Film at 1.25 mil; ASTM D-1894
Elmendorf Tear Strength, MD	12.6 g/micron	320 g/mil	Blown Film at 1.25 mil; ASTM D-1922
Elmendorf Tear Strength, TD	4.92 g/micron	125 g/mil	Blown Film at 1.25 mil; ASTM D-1922
Dart Drop	2.56 g/micron	65.0 g/mil	Blown 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	9.0 % @Thickness 0.0317 mm	9.0 % @Thickness 0.00125 in	blown films; ASTM D-1003
Gloss	86 %	86 %	60°, Blown Film at 1.25 mil; ASTM D-2457