

Chevron Phillips Marlex® 1122

This low density polyethylene is tailored for film applications that require: • Easy processing • No additives • Good contact clarity.
Typical blown film applications include: • Liners • Trash bags • Masking films.

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1505
Water Vapor Transmission	15.5 g/m ² /day @Thickness 0.0317 mm	0.998 g/100 in ² /day @Thickness 0.00125 in	ASTM F1249
Oxygen Transmission Rate	5200 cc/m ² /day @Thickness 0.0317 mm	335 cc/100 in ² /day @Thickness 0.00125 in	ASTM D3985
Thickness	31.8 microns	1.25 mil	As Tested
Melt Flow	2.1 g/10 min @Load 2.16 kg, Temperature 190 °C	2.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	0.000 ppm	0.000 ppm	
Slip Level	0.000 ppm	0.000 ppm	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	330 % @Thickness 0.0317 mm	330 % @Thickness 0.00125 in	ASTM D882
Film Elongation at Break, TD	580 % @Thickness 0.0317 mm	580 % @Thickness 0.00125 in	ASTM D882
Coefficient of Friction	>= 1.0	>= 1.0	ASTM D1894
Elmendorf Tear Strength MD	175 g @Thickness 0.0317 mm	175 g @Thickness 0.00125 in	ASTM D1922
Elmendorf Tear Strength TD	120 g @Thickness 0.0317 mm	120 g @Thickness 0.00125 in	ASTM D1922
Elmendorf Tear Strength, MD	5.51 g/micron @Thickness 0.0317 mm	140 g/mil @Thickness 0.00125 in	ASTM D1922
Elmendorf Tear Strength, TD	3.78 g/micron @Thickness 0.0317 mm	96.0 g/mil @Thickness 0.00125 in	ASTM D1922
Dart Drop	2.83 g/micron @Thickness 0.0317 mm	72.0 g/mil @Thickness 0.00125 in	ASTM D1709
Dart Drop Test	90.0 g @Thickness 0.0317 mm	0.198 lb @Thickness 0.00125 in	ASTM D1709
Film Tensile Strength at Break, MD	27.0 MPa @Thickness 0.0317 mm	3920 psi @Thickness 0.00125 in	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa @Thickness 0.0317 mm	3190 psi @Thickness 0.00125 in	ASTM D882
1% Secant Modulus, MD	186 MPa @Thickness 0.0317 mm	27000 psi @Thickness 0.00125 in	ASTM D882
1% Secant Modulus, TD	227 MPa @Thickness 0.0317 mm	32900 psi @Thickness 0.00125 in	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	107 °C	225 °F	ASTM D3418
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	8.5 % @Thickness 0.0317 mm	8.5 % @Thickness 0.00125 in	ASTM D1003
Gloss	85 % @Thickness 0.0317 mm	85 % @Thickness 0.00125 in	60°; ASTM D2457