

Chevron Phillips Marlex® 7109

This linear low density polyethylene is an ethylene-hexene copolymer tailored for blown film applications that require

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	0.90 g/10 min	0.90 g/10 min	190 °C/2.16 kg; ASTM D1238E

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Coefficient of Friction	1.0	1.0	ASTM D1894
Elmendorf Tear Strength, MD	17.7 g/micron	450 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	29.5 g/micron	750 g/mil	ASTM D1992
Dart Drop	12.8 g/micron	325 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	62.1 MPa	9000 psi	ASTM D882
Film Tensile Strength at Break, TD	48.3 MPa	7000 psi	ASTM D882
1% Secant Modulus, MD	221 MPa	32000 psi	ASTM D882
1% Secant Modulus, TD	262 MPa	38000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	90 %	90 %	60°; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	204 °C	399 °F	
Die Opening	0.0762 cm	0.0300 in	
Extruder Size	6.35 cm	2.50 in	

Descriptive Properties	
Color	Natural