

Chevron Phillips Marlex® 7109DL

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

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	650 %	650 %	ASTM D882
Coefficient of Friction	0.50	0.50	ASTM D1894
Elmendorf Tear Strength, MD	15.7 g/micron	400 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	27.6 g/micron	700 g/mil	ASTM D1992
Dart Drop	10.8 g/micron	275 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	55.2 MPa	8000 psi	ASTM D882
Film Tensile Strength at Break, TD	34.5 MPa	5000 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	24 %	24 %	ASTM D1003
Gloss	50 %	50 %	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	