

Chevron Phillips Marlex® 7109FJ

This linear low density polyethylene is an ethylene-hexene copolymer tailored for blown film applications that require: • Good stiffness at thin gauges • Good drawdown • Excellent processability • Use alone or in blends with LDPE or HDPE • Low amounts of antiblocking agent.

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	As Tested
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Antiblock Level	2500 ppm	2500 ppm	
Slip Level	1000 ppm	1000 ppm	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 % @Thickness 0.0254 mm	450 % @Thickness 0.00100 in	ASTM D882
Film Elongation at Break, TD	600 % @Thickness 0.0254 mm	600 % @Thickness 0.00100 in	ASTM D882
Coefficient of Friction	>= 0.20	>= 0.20	ASTM D1894
Elmendorf Tear Strength MD	400 g @Thickness 0.0254 mm	400 g @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength TD	700 g @Thickness 0.0254 mm	700 g @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength, MD	15.7 g/micron @Thickness 0.0254 mm	400 g/mil @Thickness 0.00100 in	ASTM D1922

Elmendorf Tear Strength, TD	27.6 g/micron @Thickness 0.0254 mm	700 g/mil @Thickness 0.00100 in	ASTM D1922
Dart Drop	11.0 g/micron @Thickness 0.0254 mm	280 g/mil @Thickness 0.00100 in	ASTM D1709
Dart Drop Test	280 g @Thickness 0.0254 mm	0.617 lb @Thickness 0.00100 in	ASTM D1709
Film Tensile Strength at Break, MD	30.0 MPa @Thickness 0.0254 mm	4350 psi @Thickness 0.00100 in	ASTM D882
Film Tensile Strength at Break, TD	20.0 MPa @Thickness 0.0254 mm	2900 psi @Thickness 0.00100 in	ASTM D882
1% Secant Modulus, MD	221 MPa @Thickness 0.0254 mm	32100 psi @Thickness 0.00100 in	ASTM D882
1% Secant Modulus, TD	228 MPa @Thickness 0.0254 mm	33100 psi @Thickness 0.00100 in	ASTM D882
Optical Properties			
Optical Properties	Metric	English	Comments
Haze	19 % @Thickness 0.0254 mm	19 % @Thickness 0.00100 in	ASTM D1003
Gloss	65 % @Thickness 0.0254 mm	65 % @Thickness 0.00100 in	60°; ASTM D2457
Descriptive Properties			
Process Aid	Yes		