

Chevron Phillips Marlex® 7105D

This linear low density polyethylene is an ethylene-hexene copolymer tailored for blown film applications that require: • Excellent toughness properties • Good drawdown • Good processing characteristics • Use alone or in co extrusions; blends with other polyolefins

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	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 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	450 % @Thickness 0.0254 mm	450 % @Thickness 0.00100 in	ASTM D882
Film Elongation at Break, TD	750 % @Thickness 0.0254 mm	750 % @Thickness 0.00100 in	ASTM D882
Coefficient of Friction	>= 1.0	>= 1.0	ASTM D1894
Elmendorf Tear Strength MD	500 g @Thickness 0.0254 mm	500 g @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength TD	850 g @Thickness 0.0254 mm	850 g @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength, MD	19.7 g/micron @Thickness 0.0254 mm	500 g/mil @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength, TD	33.5 g/micron @Thickness 0.0254 mm	850 g/mil @Thickness 0.00100 in	ASTM D1922
Dart Drop	15.7 g/micron @Thickness 0.0254 mm	400 g/mil @Thickness 0.00100 in	ASTM D1709
Dart Drop Test	400 g @Thickness 0.0254 mm	0.882 lb @Thickness 0.00100 in	ASTM D1709
Film Tensile Strength at Break, MD	72.0 MPa @Thickness 0.0254 mm	10400 psi @Thickness 0.00100 in	ASTM D882
Film Tensile Strength at Break, TD	52.0 MPa @Thickness 0.0254 mm	7540 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	262 MPa @Thickness 0.0254 mm	38000 psi @Thickness 0.00100 in	ASTM D882

Optical Properties	Metric	English	Comments
Haze	12 % @Thickness 0.0254 mm	12 % @Thickness 0.00100 in	ASTM D1003
Gloss	90 % @Thickness 0.0254 mm	90 % @Thickness 0.00100 in	60°; ASTM D2457

Descriptive Properties	
Process Aid	Yes