

Chevron Phillips Marlex® 5613

This low density polyethylene is tailored for blown film applications that require:
Superior strength
Good abrasion and tear resistance

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D1505
Water Vapor Transmission	10.0 g/m ² /day	0.644 g/100 in ² /day	ASTM F1249
Oxygen Transmission Rate	3500 cc/m ² /day	225 cc/100 in ² /day	ASTM D3985
Melt Flow	0.50 g/10 min	0.50 g/10 min	Condition E; ASTM D 1238
	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	6000 ppm	6000 ppm	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	190 %	190 %	ASTM D882
Film Elongation at Break, TD	560 %	560 %	ASTM D882
Coefficient of Friction	0.45	0.45	ASTM D1894
Elmendorf Tear Strength MD	280 g	280 g	ASTM D1922
Elmendorf Tear Strength TD	200 g	200 g	ASTM D1922
Dart Drop Test	200 g	0.441 lb	ASTM D1709
Film Tensile Strength at Break, MD	26.0 MPa	3770 psi	ASTM D882
Film Tensile Strength at Break, TD	24.0 MPa	3480 psi	ASTM D882
1% Secant Modulus, MD	217 MPa	31500 psi	ASTM D882
1% Secant Modulus, TD	272 MPa	39500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	111 °C	232 °F	ASTM D3418
Vicat Softening Point	99.0 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ASTM D1003
Gloss	80 %	80 %	at 60°; ASTM D 2457