

Chevron Phillips Marlex® 9659

Resin Type: Linear Polyethylene Homopolymer

Physical Properties	Metric	English	Comments
Density	0.962 g/cc	0.0348 lb/in ³	ASTM D1505
Moisture Vapor Transmission	0.100 cc-mm/m ² -24hr-atm	0.254 cc-mil/100 in ² -24hr-atm	ASTM F1249
Melt Flow	1.0 g/10 min	1.0 g/10 min	Condition E; ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	490 %	490 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Secant Modulus, MD	1.10 GPa	160 ksi	ASTM D882
Secant Modulus, TD	1.20 GPa	174 ksi	ASTM D882
Elmendorf Tear Strength, MD	0.748 g/micron	19.0 g/mil	Notched; ASTM D1922
Elmendorf Tear Strength, TD	8.27 g/micron	210 g/mil	ASTM D1922
Dart Drop	1.40 g/micron	35.6 g/mil	1.5 in. dart/26 in. drop height; ASTM D 1709
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	26.0 MPa	3770 psi	ASTM D882

Processing Properties	Metric	English	Comments
Melt Temperature	210 °C	410 °F	