

Chevron Phillips Marlex® 7120X

This linear low density polyethylene is an ethylene-hexene copolymer tailored for film applications that require:
 Excellent processing characteristics
 Exceptional drawdown

Physical Properties	Metric	English	Comments
Specific Gravity	0.919 g/cc	0.919 g/cc	ASTM D1505

Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
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Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	ASTM D882

Film Elongation at Break, TD	750 %	750 %	ASTM D882
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Coefficient of Friction	0.80	0.80	ASTM D1894
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Elmendorf Tear Strength, MD	11.8 g/micron	300 g/mil	ASTM D1922
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Elmendorf Tear Strength, TD	29.5 g/micron	750 g/mil	ASTM D1922
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Dart Drop	6.89 g/micron	175 g/mil	ASTM D1709
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Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ASTM D882
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Film Tensile Strength at Break, TD	38.0 MPa	5510 psi	ASTM D882
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1% Secant Modulus, MD	228 MPa	33100 psi	ASTM D882
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1% Secant Modulus, TD	276 MPa	40000 psi	ASTM D882
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Optical Properties	Metric	English	Comments
Haze	18 %	18 %	ASTM D1003

Gloss	65 %	65 %	at 60°; ASTM D2457
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Processing Properties	Metric	English	Comments
Melt Temperature	271 °C	520 °F	

Extruder Size	6.35 cm	2.50 in	
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