For more information and technical assistance contact:

Chevron Phillips Chemical
P.O. Box 4910
The Woodlands, TX 77387-4910
800.231.1212

Marlex® Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® 7109M Polyethylene

LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

This linear low density polyethylene is an ethylene-hexene copolymer tailored for blown film applications that require:

- Good toughness properties
- Good drawdown
- Excellent processing characteristics
- Use alone or in coextrusions; blends with other polyolefins

Typical blown film applications include:

- Industrial films and bags
- Thin gauge applications
- General purpose packaging

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.9 g/10 min	ASTM D1238
Density	---	0.918 g/cm^3	ASTM D1505
Slip	1600 ppm	1600 ppm	---
Antiblock	6500 ppm	6500 ppm	---
Process Aid	None	None	---

Nominal Blown Film Properties at 1 mil[1]	English	SI	Method
Haze	24 %	24 %	ASTM D1003
Gloss, 60°	50	50	ASTM D2457
COF	0.15	0.15	ASTM D1894
Dart	---	250 g/mil	ASTM D1709
Elmendorf Tear MD	---	400 g/mil	ASTM D1922
Elmendorf Tear TD	---	700 g/mil	ASTM D1922
Tensile Strength at Break MD	8000 psi	55 MPa	ASTM D882
Tensile Strength at Break TD	5000 psi	34 MPa	ASTM D882
Tensile Elongation at Break MD	400 %	400 %	ASTM D882
Tensile Elongation at Break TD	650 %	650 %	ASTM D882
1 % Secant Modulus MD	32000 psi	221 MPa	ASTM D882
1 % Secant Modulus TD	38000 psi	262 MPa	ASTM D882

1. Produced on 3.5 in extruder, 30:1 L/D, 8 in die, 80 mil die gap, 2.5:1 BUR, 440 °F melt temperature

Revision Date:August, 2021

Chevron Phillips CHEMICAL

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Chevron Phillips Chemical Company LP does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.