For more information and technical assistance contact:

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

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® D174 Polyethylene

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE (mLLDPE)

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

- Superior clarity
- Excellent gloss
- Exceptional toughness
- Outstanding heat seal

Typical cast film applications include:

- Stretch wrap
- Overwrap
- Coextrusions

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	4.5 g/10 min	ASTM D1238
Density	---	0.918 g/cm^3	ASTM D1505
Slip	None	None	---
Antiblock	None	None	---
Process Aid	None	None	---

Nominal Cast Film Properties at 1 mil[1]	English	SI	Method
Haze	2 %	2 %	ASTM D1003
Gloss, 60°	140	140	ASTM D2457
COF	> 1	> 1	ASTM D1894
Dart	---	260 g/mil	ASTM D1709
Elmendorf Tear MD	---	300 g/mil	ASTM D1922
Elmendorf Tear TD	---	500 g/mil	ASTM D1922
Tensile Strength at Yield MD	1500 psi	10 MPa	ASTM D882
Tensile Strength at Yield TD	1300 psi	9 MPa	ASTM D882
Tensile Strength at Break MD	7800 psi	54 MPa	ASTM D882
Tensile Strength at Break TD	6800 psi	47 MPa	ASTM D882
Tensile Elongation at Break MD	550 %	550 %	ASTM D882
Tensile Elongation at Break TD	680 %	680 %	ASTM D882
1 % Secant Modulus MD	16000 psi	110 MPa	ASTM D882
1 % Secant Modulus TD	17000 psi	117 MPa	ASTM D882
Seal Initiation Temperature[2]	214 °F	101 °C	ASTM F88

1. Produced on a cast film line at 200 lb/h, 25 mil die gap, 550 °F melt temperature
2. Temperature at which 0.3 lb/in heat seal strength is achieved. 0.5 s dwell, 30 psi pressure, 11.8 in/min separation rate.

Revision Date: October, 2021

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.