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® 5613 Polyethylene

LOW DENSITY POLYETHYLENE (LDPE)

This low density polyethylene is tailored for blown film applications that require:

- Superior strength
- Good abrasion and tear resistance
- Exceptional shrink and shrink tension
- High coefficient of friction

Typical blown film applications include:

- Heavy duty packaging
- Pallet shrink
- Case shrink wrap
- C&A film and container liners

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.5 g/10 min	ASTM D1238
Density	---	0.923 g/cm^3	ASTM D1505
Slip	None	None	---
Antiblock	6000 ppm	6000 ppm	---
Vicat Softening Temperature	210 °F	99 °C	ASTM D1525
Melting Point	232 °F	111 °C	ASTM D3418

Nominal Blown Film Properties at 2.0 mil[1,2]	English	SI	Method
Haze	11 %	11 %	ASTM D1003
Gloss, 60°	80	80	ASTM D2457
COF	0.45	0.45	ASTM D1894
Dart	---	200 g	ASTM D1709
Elmendorf Tear MD/TD	---	280/200 g	ASTM D1922
Tensile Strength at Break MD/TD	3800/3500 psi	26/24 MPa	ASTM D882
Tensile Elongation at Break MD/TD	190/560 %	190/560 %	ASTM D882
1 % Secant Modulus MD/TD	31500/39500 psi	217/272 MPa	ASTM D882
WVTR	0.65 g/100in^2/day	10 g/m^2/day	ASTM F1249
OTR	250 cm^3/100in^2/day	3500 cm^3/m^2/day	ASTM D3985

1. Produced on a LDPE line at 2.5:1 BUR, 35 mil die gap, 8 in. die, 250 lb/h, 400 °F melt temperature.
2. Not recommended for gauges under 2.0 mil

Revision Date: August, 2021

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