Marlex Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® 5755 Polyethylene

LOW DENSITY POLYETHYLENE (LDPE)

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

- Superb optics
- Excellent impact strength
- Exceptional processability
- High coefficient of friction

Typical blown film resin applications include:

- Produce bags
- Frozen food packaging
- Dry goods packaging
- Case shrink wrap, bundling
- Laminations
- General purpose clarity packaging

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.8 g/10 min	ASTM D1238
Density	---	0.925 g/cm^3	ASTM D1505
Slip	None	None	---
Antiblock	3000 ppm	3000 ppm	---
Vicat Softening Temperature	210 °F	99 °C	ASTM D1525
Melting Point	233 °F	112 °C	ASTM D3418

Nominal Blown Film Properties at 1.25 mil[1]	English	SI	Method
Haze	5 %	5 %	ASTM D1003
Gloss, 60°	125	125	ASTM D2457
COF	0.5	0.5	ASTM D1894
Dart	---	100 g	ASTM D1709
Elmendorf Tear MD/TD	---	300/250 g	ASTM D1922
Tensile Strength at Break MD/TD	4000/3400 psi	27/23 MPa	ASTM D882
Tensile Elongation at Break MD/TD	245/570 %	245/570 %	ASTM D882
1 % Secant Modulus MD/TD	30000/35000 psi	207/241 MPa	ASTM D882
WVTR	1.0 g/100in^2/day	15.5 g/m^2/day	ASTM F1249
OTR	380 cm^3/100in^2/day	6000 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.

Chevron Phillips CHEMICAL

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