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Marlex® Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® 5563 Polyethylene

LOW DENSITY POLYETHYLENE (LDPE)

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

- Excellent optics
- Good impact strength
- Exceptional processability
- Good heat seal characteristics
- Low coefficient of friction

Typical blown film applications include:

- Laminations
- Bakery film
- Case shrink wrap
- Produce and hardware packaging

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	1.3 g/10 min	ASTM D1238
Density	---	0.925 g/cm^3	ASTM D1505
Slip	850 ppm	850 ppm	---
Antiblock	3500 ppm	3500 ppm	---
Vicat Softening Temperature	211 °F	99 °C	ASTM D1525
Melting Point	232 °F	111 °C	ASTM D3418

Nominal Blown Film Properties at 1.25 mil[1]	English	SI	Method
Haze	6.0 %	6.0 %	ASTM D1003
Gloss, 60°	116	116	ASTM D2457
COF	0.15	0.15	ASTM D1894
Dart	---	90 g	ASTM D1709
Elmendorf Tear MD/TD	---	250/270 g	ASTM D1922
Tensile Strength at Break MD/TD	3800/3200 psi	26/22 MPa	ASTM D882
Tensile Elongation at Break MD/TD	300/570 %	300/570 %	ASTM D882
1 % Secant Modulus MD/TD	31000/33400 psi	214/230 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.

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