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Marlex Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® D350 Polyethylene

METALLOCENE MEDIUM DENSITY POLYETHYLENE (mMDPE)

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

- Exceptional clarity
- Excellent gloss
- High stiffness
- Good toughness

Typical blown film applications include:

- Overwrap
- Bakery film
- Stand-up pouches

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.9 g/10 min	ASTM D1238
Density	---	0.933 g/cm^3	ASTM D1505
Slip	None	None	---
Antiblock	None	None	---
Process Aid	Yes	Yes	---

Nominal Blown Film Properties at 1 mil[1]	English	SI	Method
Haze	5 %	5 %	ASTM D1003
Gloss, 60°	130	130	ASTM D2457
COF	0.9	0.9	ASTM D1894
Dart	---	80 g/mil	ASTM D1709
Elmendorf Tear MD	---	50 g/mil	ASTM D1922
Elmendorf Tear TD	---	400 g/mil	ASTM D1922
Tensile Strength at Yield MD	2400 psi	17 MPa	ASTM D882
Tensile Strength at Yield TD	3000 psi	21 MPa	ASTM D882
Tensile Strength at Break MD	8300 psi	57 MPa	ASTM D882
Tensile Strength at Break TD	6600 psi	46 MPa	ASTM D882
Tensile Elongation at Break MD	580 %	580 %	ASTM D882
Tensile Elongation at Break TD	700 %	700 %	ASTM D882
1 % Secant Modulus MD	63000 psi	434 MPa	ASTM D882
1 % Secant Modulus TD	88000 psi	607 MPa	ASTM D882
Seal Initiation Temperature[2]	248 °F	120 °C	ASTM F88

1. Produced on a LLDPE line at 2.5:1 BUR, 80 mil die gap, 8 in die, 250 lb/h, 400 °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.

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