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Marlex Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® D350-N 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	None	None	---

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/TD	---	50/400 g/mil	ASTM D1922
Tensile Strength at Yield MD/TD	2400/3000 psi	17/21 MPa	ASTM D882
Tensile Strength at Break MD/TD	8300/6600 psi	57/46 MPa	ASTM D882
Tensile Elongation at Break MD/TD	580/700 %	580/700 %	ASTM D882
1 % Secant Modulus MD/TD	63000/88000 psi	434/607 MPa	ASTM D882
Film Puncture Energy	10.2 in·lbf	1.5 J	ASTM D3763
Film Puncture Force	7.13 lbf	32 N	ASTM D3763
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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