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SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex<sup>®</sup> D143 Polyethylene

Typical blown film applications include:

Heavy duty packaging

Clarity packaging

Seal layer in coextrusions

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE (mLLDPE)

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

- Superb clarity
- Excellent gloss
- Exceptional toughness
- Outstanding heat seal

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg		1.4 g/10 min	ASTM D1238
Density		0.916 g/cm <sup>3</sup>	ASTM D1505
Slip	None	None	
Antiblock	None	None	
Process Aid	Yes	Yes	

Nominal Blown Film Properties at 1 mil <sup>1</sup>	English	SI	Method
Haze	4 %	4 %	ASTM D1003
Gloss, 60°	130	130	ASTM D2457
COF	> 1	> 1	ASTM D1894
Dart		750 g/mil	ASTM D1709
Elmendorf Tear MD		170 g/mil	ASTM D1922
Elmendorf Tear TD		370 g/mil	ASTM D1922
Tensile Strength at Yield MD	1700 psi	12 MPa	ASTM D882
Tensile Strength at Yield TD	1450 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	10100 psi	70 MPa	ASTM D882
Tensile Strength at Break TD	7600 psi	52 MPa	ASTM D882
Tensile Elongation at Break MD	520 %	520 %	ASTM D882
Tensile Elongation at Break TD	600 %	600 %	ASTM D882
1 % Secant Modulus MD	22000 psi	152 MPa	ASTM D882
1 % Secant Modulus MD	22700 psi	157 MPa	ASTM D882
Seal Initiation Temperature <sup>2</sup>	216 °F	102 °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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