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SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® D139 Polyethylene

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

Typical blown film applications include:

Seal layer in coextrusions Heavy duty packaging Clarity packaging Agricultural films

| Nominal Resin Properties | English | SI | Method |
|----------------------------|---------|-------------------------|------------|
| Melt Index, 190 °C/2.16 kg | | 1.0 g/10 min | ASTM D1238 |
| Density | | 0.918 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 | 4 % | 4 % | ASTM D1003 |
| Gloss, 60° | 130 | 130 | ASTM D2457 |
| COF | > 1 | > 1 | ASTM D1894 |
| Dart | | > 700 g/mil | ASTM D1709 |
| Elmendorf Tear MD/TD | | 220/430 g/mil | ASTM D1922 |
| Tensile Strength at Yield MD/TD | 1850/1450 psi | 13/10 MPa | ASTM D882 |
| Tensile Strength at Break MD/TD | 10800/8200 psi | 74/57 MPa | ASTM D882 |
| Tensile Elongation at Break MD/TD | 500/600 % | 500/600 % | ASTM D882 |
| 1 % Secant Modulus MD/TD | 26000/30200 psi | 179/208 MPa | ASTM D882 |
| Seal Initiation Temperature ² | 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.

Revision Date: January, 2019

Another quality product from



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