For more information and technical assistance contact:

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Marlex Polyethylene

SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® D139FK-P01 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
- PFAS-free process aid

Typical blown film applications include:

- Seal layer in coextrusions
- Heavy duty packaging
- Clarity packaging

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	1000 ppm	1000 ppm	---
Antiblock	5000 ppm	5000 ppm	---
Process Aid	Yes	Yes	---

Nominal Blown Film Properties @ 1 mil[1]	English	SI	Method
Haze	9 %	9 %	ASTM D1003
Gloss, 60°	103	103	ASTM D2457
COF	0.15	0.15	ASTM D1894
Dart	---	540 g/mil	ASTM D1709
Elmendorf Tear MD/TD	---	165/440 g/mil	ASTM D1922
Tensile Strength at Yield MD/TD	1850/1400 psi	14/10 MPa	ASTM D882
Tensile Strength at Break MD/TD	8300/6650 psi	59/49 MPa	ASTM D882
Tensile Elongation at Break MD/TD	450/560 %	450/560 %	ASTM D882
1 % Secant Modulus MD/TD	24000/27300 psi	165/188 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.

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