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SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® D170DK 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:

- Good tensile properties
- Exceptional toughness
- Surface printing
- Stiffness

Typical blown film applications include:

- Heavy duty packaging
- Industrial packaging
- Institutional packaging

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.9 g/10 min	ASTM D1238
Density	---	0.923 g/cm ³	ASTM D1505
Slip	None	None	---
Antiblock	5000	5000	---
Process Aid	Yes	Yes	---

Nominal Blown Film Properties at 1 mil ¹	English	SI	Method
Haze	10 %	10 %	ASTM D1003
Gloss, 60°	100	100	ASTM D2457
COF	0.8	0.8	ASTM D1894
Dart	---	270 g/mil	ASTM D1709
Elmendorf Tear MD/TD	---	210/600 g/mil	ASTM D1922
Tensile Strength at Yield MD/TD	2300/1600 psi	16/11 MPa	ASTM D882
Tensile Strength at Break MD/TD	8700/6500 psi	60/45 MPa	ASTM D882
Tensile Elongation at Break MD/TD	420/580 %	420/580 %	ASTM D882
1 % Secant Modulus MD/TD	32000/35000 psi	220/241 MPa	ASTM D882
Seal Initiation Temperature ²	230 °F	110 °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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