

Marlex[®] D174 Polyethylene

METALLOCENE LINEAR LOW DENSITY POLYETHYLENE (mLLDPE)

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

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

Typical cast film applications include:

- Stretch wrap
- Overwrap
- Coextrusions

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	4.5 g/10 min	ASTM D1238
Density	---	0.918 g/cm ³	ASTM D1505
Slip	None	None	---
Antiblock	None	None	---
Process Aid	None	None	---

Nominal Cast Film Properties at 1 mil ¹	English	SI	Method
Haze	2 %	2 %	ASTM D1003
Gloss, 60°	140	140	ASTM D2457
COF	> 1	> 1	ASTM D1894
Dart	---	260 g/mil	ASTM D1709
Elmendorf Tear MD/TD	---	300/500 g/mil	ASTM D1922
Tensile Strength at Yield MD/TD	1500/1300 psi	10/9 MPa	ASTM D882
Tensile Strength at Break MD/TD	7800/6800 psi	54/47 MPa	ASTM D882
Tensile Elongation at Break MD/TD	550/680 %	550/680 %	ASTM D882
1 % Secant Modulus MD/TD	16000/17000 psi	110/117 MPa	ASTM D882
Seal Initiation Temperature ²	214 °F	101 °C	ASTM F88

1. Produced on a cast film line at 200 lb/h, 25 mil die gap, 550 °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: August, 2021



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