

Marlex® 5440 Polyethylene

LOW DENSITY POLYETHYLENE (LDPE)

This low density polyethylene is tailored for cast film applications that require:

- Suited for high speed converting
- Good clarity
- Low COF

Typical cast film applications include:

- Coextruded film
- General purpose packaging

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	2.2 g/10 min	ASTM D1238
Density	---	0.925 g/cm ³	ASTM D1505
Slip	1000	1000	---
Antiblock	None	None	---
Vicat Softening Temperature	209 °F	99 °C	ASTM D1525
Melting Point	232 °F	111 °C	ASTM D3418

Nominal Cast Film Properties at 1.25 mil ¹	English	SI	Method
Haze	4 %	4 %	ASTM D1003
Gloss, 60°	135	135	ASTM D2457
COF	0.15	0.15	ASTM D1894
Dart	---	80 g/mil	ASTM D1709
Elmendorf Tear MD	---	190 g/mil	ASTM D1922
Elmendorf Tear TD	---	255 g/mil	ASTM D1922
WVTR	0.90 g/100in ² /day	14 g/m ² /day	ASTM F1249
OTR	420 cm ³ /100in ² /day	6300 cm ³ /m ² /day	ASTM D3985

1. Produced using a smooth bore extruder at a rate of 7 lb/in die cast film line

