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SUPERIOR FLEXIBLE PACKAGING RESINS

Marlex® 7109FJ Polyethylene

LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

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

- Good stiffness at thin gauges
- Good drawdown
- Excellent processability
- Use alone or in blends with LDPE or HDPE
- Low amounts of antiblocking agent

Typical blown film applications include:

- Industrial liners
- Garment bags
- Mailer bags
- General purpose packaging

Nominal Resin Properties	English	SI	Method
Melt Index, 190 °C/2.16 kg	---	0.9 g/10 min	ASTM D1238
Density	---	0.918 g/cm ³	ASTM D1505
Slip	1000	1000	---
Antiblock	2500	2500	---
Process Aid	Yes	Yes	---

Nominal Blown Film Properties at 1 mil ¹	English	SI	Method
Haze	19 %	19 %	ASTM D1003
Gloss, 60°	65	65	ASTM D2457
COF	0.2	0.2	ASTM D1894
Dart	---	280 g/mil	ASTM D1709
Elmendorf Tear MD	---	400 g/mil	ASTM D1922
Elmendorf Tear TD	---	700 g/mil	ASTM D1922
Tensile Strength at Break MD	4400 psi	30 MPa	ASTM D882
Tensile Strength at Break TD	2900 psi	20 MPa	ASTM D882
Tensile Elongation at Break MD	450 %	450 %	ASTM D882
Tensile Elongation at Break TD	600 %	600 %	ASTM D882
1 % Secant Modulus MD	32000 psi	221 MPa	ASTM D882
1 % Secant Modulus TD	39000 psi	228 MPa	ASTM D882

1. Produced on 3.5 in extruder, 30:1 L/D, 8 in die, 80 mil die gap, 2.5:1 BUR, 440 °F melt temperature

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