

ExxonMobil LDPE

LD 136 Series Packaging Film Resin

Description

ExxonMobil LD 136 resins are homopolymer film resins with good clarity. These resins are suitable for processing on blown film equipment.

Applications

- Food packaging (bread bags, baked goods, light duty produce bags, etc.)
- Textile packaging (shirts, sweaters, etc.)
- Other packaging applications requiring good clarity

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 136.MN	1500 ppm	750 ppm	Yes
LD 136.NI	450 ppm	500 ppm	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	2 g/10 min	
Density	ExxonMobil Method	0.921 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	111 °C	232 °F

Film Properties (@ thickness 38 μ (1.5 mil))

Tensile Strength at Yield	MD	ASTM D 882	10.2 MPa	1470 psi
	TD		10.3 MPa	1500 psi
Tensile Strength at Break	MD	ASTM D 882	25.5 MPa	3700 psi
	TD		19.2 MPa	2780 psi
Elongation at Break	MD	ASTM D 882	130 %	
	TD		540 %	
1% Secant Modulus	MD	ASTM D 882	198 MPa	28700 psi
	TD		245 MPa	35500 psi
Haze		ASTM D 1003	7 %	
Gloss MD, 45°		ASTM D 2457	66	
Dart Drop Impact Strength, F50		ASTM D 1709A	110 g	
Elmendorf Tear Strength	MD	ASTM D 1922	460 g	
	TD		100 g	

Film made from LD 136.MN on a 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and a melt temperature of 362-364°F (183-184°C).

LD 136 resins can - in principle - be used in food contact applications in all EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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