

ExxonMobil™ LDPE LD 129 Series

Low Density Polyethylene Resin

Product Description

ExxonMobil™ LD 129 Series are medium density homopolymer resins with good clarity and excellent stiffness. Films made from LD 129 resins can be used in overwrap applications and in push through type packaging equipment. LD 129 resins are suitable for processing in either blown or cast film equipment.

General

Additive	- LD 129.DS: Antiblock: 1000 ppm; Slip: No; Thermal Stabilizer: Yes - LD 129.24: Antiblock: 1000 ppm; Slip: No; Thermal Stabilizer: Yes		
Applications	- Bread Bags - Cast Film - Co-Extrusion Films - Diaper Backsheet - Embossed Film - Hygiene Packaging - Label Film - Overwrap Film - Paper Overwrap		
Form(s)	Pellets		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.929 g/cm ³	0.929 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.3 g/10 min	2.3 g/10 min	ASTM D1238
Peak Melting Temperature	243 °F	117 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	2100 psi	15 MPa	ASTM D882
Tensile Strength at Yield TD	2300 psi	16 MPa	ASTM D882
Tensile Strength at Break MD	3400 psi	23 MPa	ASTM D882
Tensile Strength at Break TD	2500 psi	17 MPa	ASTM D882
Elongation at Break MD	180 %	180 %	ASTM D882
Elongation at Break TD	470 %	470 %	ASTM D882
Secant Modulus MD - 1% Secant	46000 psi	320 MPa	ASTM D882
Secant Modulus TD - 1% Secant	56000 psi	390 MPa	ASTM D882
Dart Drop Impact	70 g	70 g	ASTM D1709A
Elmendorf Tear Strength MD	100 g	100 g	ASTM D1922
Elmendorf Tear Strength TD	270 g	270 g	ASTM D1922
Puncture Force	7 lbf	29 N	ExxonMobil Method
Puncture Energy	2.8 in-lb	0.32 J	ExxonMobil Method

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	70	70	ASTM D2457
Haze	8.0 %	8.0 %	ASTM D1003

