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**Product Datasheet** 

## ExxonMobil™ LDPE LD 103 Series



Low Density Polyethylene Resin

#### **Product Description**

ExxonMobil™ LD 103 resins are homopolymer industrial film resins with excellent toughness. LD 103 resins have a low melt index, which provides good impact strength and melt strength over a range of gauges.

General					
Availability <sup>1</sup>	Latin America		<ul> <li>North America</li> </ul>		
Additive			No; Thermal Stabilizer: Yes ı; Slip: No; Thermal Stabilizer:	Yes	
Applications	Agricultural Film Blend Partner Co-Extrusion Films		<ul><li>Form Fill And Seal Packagi</li><li>Freezer Film</li><li>Liners</li></ul>	_	Medium Duty Shrink Film Rubber Bale Wrap
Form(s)	Pellets				
Revision Date	06/17/2020				
Resin Properties	Typical Value	, ,	Typical Value		Test Based On
Density	-	g/cm³		g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	1.1	g/10 min		g/10 m	in ASTM D1238
Peak Melting Temperature	226	°F	108	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(CI)	Test Based On
Vicat Softening Temperature	196	, ,	91.0		ExxonMobil Method
Film Properties	Typical Value		Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Yield TD	1500	psi	10	MPa	ASTM D882
Tensile Strength at Break MD	4500	psi	31	MPa	ASTM D882
Tensile Strength at Break TD	3500	psi	24	MPa	ASTM D882
Elongation at Break MD	250	%	250	%	ASTM D882
Elongation at Break TD	610	%	610	%	ASTM D882
Secant Modulus MD - 1% Secant	29000	psi	200	MPa	ASTM D882
Secant Modulus TD - 1% Secant	37000	psi	260	MPa	ASTM D882
Dart Drop Impact	120	g	120	g	ASTM D1709A
Elmendorf Tear Strength MD	270		270	g	ASTM D1922
Elmendorf Tear Strength TD	90		90	g	ASTM D1922
Puncture Force		lbf	60		ExxonMobil Method
Puncture Energy	19	in·lb	2.1	J	ExxonMobil Method
	T : 1)(1	/E !: L \	T . 11/1	(CI)	T 10 10
Optical Properties	Typical Value	(English)	Typical Value	(51)	Test Based On
Gloss (45°)	54		54		ASTM D2457
Haze	9.2	%	9.2	%	ASTM D1003

#### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### **Processing Statement**

Film (1.5 mil / 38.1 micron) made from LD 103.09 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 340-360°F (171-182°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

Effective Date: 06/17/2020 ExxonMobil Page: 1 of 2



# ExxonMobil™ LDPE LD 103 Series Low Density Polyethylene Resin

#### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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