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Product Datasheet

ExxonMobil
Signature Polymers

ExxonMobil™ LD 07523 Series

(Legacy name: ExxonMobil™ LDPE LD 150 Series)

Low Density Polyethylene

Product Description

LD 07523 series are LDPE grades, offering good blend mechanical properties and stiffness. Several additive packages are available according to the required surface properties.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ LD 07523.AC: Antiblock: 450 ppm; Slip: 500 ppm; Thermal Stabilizer: Yes ▪ LD 07523.BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes		
Applications	▪ Agricultural Film ▪ Blend Partner ▪ Co-Extrusion Films	▪ Collation Shrink ▪ Form Fill And Seal Packaging ▪ Freezer Film	▪ Lamination Film ▪ Medium Duty Shrink Film ▪ Shoppers
Form(s)	▪ Pellets		
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.923	g/cm³	0.923	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.75	g/10 min	0.75	g/10 min	ASTM D1238
Peak Melting Temperature	229	°F	110	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	4000	psi	28	MPa	ASTM D882
Tensile Strength at Break TD	3200	psi	22	MPa	ASTM D882
Elongation at Break MD	310	%	310	%	ASTM D882
Elongation at Break TD	530	%	530	%	ASTM D882
Secant Modulus MD - 1% Secant	35000	psi	240	MPa	ASTM D882
Secant Modulus TD - 1% Secant	40000	psi	280	MPa	ASTM D882
Dart Drop Impact	180	g	180	g	ASTM D1709A
Elmendorf Tear Strength MD	350	g	350	g	ASTM D1922
Elmendorf Tear Strength TD	150	g	150	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	59		59		ASTM D2457
Haze	8.4	%	8.4	%	ASTM D1003

Legal Statement

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

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

Processing Statement

The test specimen were prepared on LD 07523.BW, 50µm (1.97mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 180 - 190°C (356 - 374°F).

Notes

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

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

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