ExxonMobil™ LDPE LD 156 Series

Low Density Polyethylene Resin

Product Description

LD 156 series are LDPE grades, specially designed for lamination films and co-extruded films. They offer good mechanical, stiffness and optical properties, combined with very low gel level. These grades have a Film Appearance specification. Two additive packages are available tailored to the needs of the laminator. LD 156 is manufactured with narrow specifications to suit the high consistency requirements of lamination films.

General

Availability [1]	▪ Africa & Middle East	▪ Europe	
Additive	▪ LD 156BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes ▪ LD 156HE: Antiblock: 1500 ppm; Slip: 550 ppm; Thermal Stabilizer: Yes		
Applications	▪ Blend Partner ▪ Co-Extrusion Films ▪ Collation Shrink	▪ Form Fill And Seal Packaging ▪ Freezer Film ▪ High Quality Lamination	▪ Lamination Film ▪ Medium Duty Shrink Film ▪ Shoppers
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.926	g/cm³	0.926	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	234	°F	112	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	3900	psi	27	MPa	ASTM D882
Tensile Strength at Break TD	3200	psi	22	MPa	ASTM D882
Elongation at Break MD	290	%	290	%	ASTM D882
Elongation at Break TD	520	%	520	%	ASTM D882
Secant Modulus MD - 1% Secant	37000	psi	260	MPa	ASTM D882
Secant Modulus TD - 1% Secant	43000	psi	290	MPa	ASTM D882
Dart Drop Impact	140	g	140	g	ASTM D1709A
Elmendorf Tear Strength MD	380	g	380	g	ASTM D1922
Elmendorf Tear Strength TD	190	g	190	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	64		64		ASTM D2457
Haze	6.9	%	6.9	%	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 156BW, 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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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