

Product Datasheet



ExxonMobil™ LDPE LD 157CW Blown

Low Density Polyethylene Resin

Product Description

LD 157CW offers good mechanical properties as well as excellent opticals.

General

Availability ¹	- Africa & Middle East - Europe
Additive	- Antiblock: No - Slip: No - Thermal Stabilizer: Yes
Applications	- Co-Extrusion Films - Lamination Film - Overwrap Film - Label Film - Medium Duty Shrink Film
Revision Date	01/01/2017

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.931 g/cm ³	0.931 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.60 g/10 min	0.60 g/10 min	ASTM D1238
Peak Melting Temperature	241 °F	116 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield TD	2300 psi	16 MPa	ASTM D882
Tensile Strength at Break MD	4100 psi	29 MPa	ASTM D882
Tensile Strength at Break TD	3200 psi	22 MPa	ASTM D882
Elongation at Break MD	350 %	350 %	ASTM D882
Elongation at Break TD	550 %	550 %	ASTM D882
Secant Modulus MD - 1% Secant	50000 psi	340 MPa	ASTM D882
Secant Modulus TD - 1% Secant	57000 psi	390 MPa	ASTM D882
Dart Drop Impact	100 g	100 g	ASTM D1709A
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	230 g	230 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	65	65	ASTM D2457
Haze	7.0 %	7.0 %	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 157CW, 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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