

Product Datasheet



ExxonMobil™ LDPE LD 185 Series

Low Density Polyethylene Resin

Product Description

The ExxonMobil™ LDPE LD 185 resin offer good optical properties and sealing characteristics. LD 185 is manufactured with narrow specifications to suit the high consistency requirements of lamination films.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Europe
Additive	<ul style="list-style-type: none"> LD 185BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes LD 185JD: Antiblock: 1800 ppm; Slip: 330 ppm; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> Co-Extrusion Films Food Packaging High Quality Lamination Display Packaging Film Form Fill And Seal Packaging Lamination Film
Revision Date	08/18/2022

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.923 g/cm ³	0.923 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Peak Melting Temperature	230 °F	110 °C	ExxonMobil Method

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1600 psi	11 MPa	ASTM D882
Tensile Strength at Yield TD	1600 psi	11 MPa	ASTM D882
Tensile Strength at Break MD	4200 psi	29 MPa	ASTM D882
Tensile Strength at Break TD	3300 psi	23 MPa	ASTM D882
Elongation at Break MD	370 %	370 %	ASTM D882
Elongation at Break TD	550 %	550 %	ASTM D882
Secant Modulus MD - 1% Secant	30000 psi	210 MPa	ASTM D882
Secant Modulus TD - 1% Secant	35000 psi	240 MPa	ASTM D882
Dart Drop Impact	80 g	80 g	ASTM D1709A
Elmendorf Tear Strength MD	150 g	150 g	ASTM D1922
Elmendorf Tear Strength TD	110 g	110 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	65	65	ASTM D2457
Haze	6.3 %	6.3 %	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

The film properties have been measured on a 30 µm (1.18 mil) thick film of LD 185BW. (Blow-up ratio : 2.5)

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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