

ExxonMobil™ LDPE LD 051.LQ

Low Density Polyethylene Resin

Product Description

LD 051.LQ blown film resin is a fractional melt index grade designed for demanding heavy duty film applications, and combine excellent strength properties with outstanding processability.

General

Availability ¹	<ul style="list-style-type: none"> Latin America North America
Additive	<ul style="list-style-type: none"> LD 051.LQ: Antiblock: 4000 ppm; Slip: No; Thermal Stabilizer: No
Applications	<ul style="list-style-type: none"> Agricultural Film Blend Partner Collation Shrink Construction Film Heavy Duty Bags Pallet Shrink Film Zipper Bag
Revision Date	<ul style="list-style-type: none"> 03/01/2010

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.919 g/cm ³	0.919 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.25 g/10 min	0.25 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	1500 psi	10 MPa	ASTM D882
Tensile Strength at Break MD	3700 psi	26 MPa	ASTM D882
Tensile Strength at Break TD	3500 psi	24 MPa	ASTM D882
Elongation at Break MD	130 %	130 %	ASTM D882
Elongation at Break TD	570 %	570 %	ASTM D882
Secant Modulus MD - 1% Secant	27000 psi	180 MPa	ASTM D882
Secant Modulus TD - 1% Secant	35000 psi	240 MPa	ASTM D882
Dart Drop Impact	190 g	190 g	ASTM D1709A
Elmendorf Tear Strength MD	280 g	280 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922

Optical Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	33	33	ASTM D2457
Haze	20 %	20 %	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 (2 mil / 50.8 micron) made from LD 051.LQ on a 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and a melt temperature of 387F (198C).

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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