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ExxonMobil™ LLDPE LL 1002 Series Blown

Linear Low Density Polyethylene Resin

Product Description

LL 1002 series are butene LLDPE designed for the blown film process, offering high gloss and excellent draw down. Films made from LL1002 resins have very good tensile and toughness properties.

General				
Availability ¹	 Africa & Middle East 	 Asia Pacific 	 Europe 	
Additive	 LL 1002KW: Antiblock: 3500 ppm; Slip: 1500 ppm; Processing Aid: No; Thermal Stabilizer: Yes LL 1002YB: Antiblock: No; Slip: No; Processing Aid: No; Thermal Stabilizer: Yes 			
Applications	 Agricultural Film Bag in Box Blown Film Cast Film Food Packaging Form Fill And Seal Packaging Freezer Film 	 Garment Film General Packaging Industrial Packaging Institutional Can Liners Lamination Film Liners Mulch Film 	 Multilayer Packaging Film Packaging Films Personal Care Produce Bags On A Roll Shoppers Trash Can Liners 	
Revision Date	• 03/01/2013			
Resin Properties	Typical Value (English	Typical Value	(SI)	Test Based On
Density / Specific Gravity	0.918 g/cm ³	0.918	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10 mi	ר 2.0	g/10 min	ASTM D1238
Peak Melting Temperature	250 °F	121	°C	ExxonMobil Method
Film Properties	Typical Value (English	Typical Value	(SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.4	MPa	ASTM D882
Tensile Strength at Yield TD	1300 psi	8.9	MPa	ASTM D882
Tensile Strength at Break MD	7100 psi	49	MPa	ASTM D882
Tensile Strength at Break TD	4200 psi	29	MPa	ASTM D882
Elongation at Break MD	590 %	590	%	ASTM D882
Elongation at Break TD	800 %	800	%	ASTM D882
Secant Modulus TD - 1% Secant	32000 psi		MPa	ASTM D882
Dart Drop Impact	70 g	70	g	ASTM D1709A
Elmendorf Tear Strength MD	90 g	90	g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400	g	ASTM D1922
Optical Properties	Typical Value (English	Typical Value	(SI)	Test Based On
Gloss (45°)	76	76		ASTM D2457
Haze	4.4 %	4.4	%	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

Representative samples LL1002YB from our global manufacturing facilities were used. The test specimen were prepared and tested at our European Technology Center using a 25.4 μ m (1.0 mil) thick film (screw diameter = 75 mm, die gap = 2.5 mm, BUR = 2.5 and temperature setting of 200°C). Optical film properties have been measured on a 25.4 μ m thick film with addition of 10% LDPE at the same conditions.

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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