



Product Datasheet



# ExxonMobil™ LLDPE LL 1001BT

Linear Low Density Polyethylene Resin

## Product Description

ExxonMobil LL 1001BT resin offers excellent drawdown and puncture resistance combined with high gloss and clarity. It is frequently used as a blend partner with LDPE resins to improve film properties and processability. TnPP is not intentionally added to LL 1001BT resin.

General			
Availability <sup>1</sup>	<ul> <li>Africa &amp; Middle East</li> </ul>	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Europe</li> </ul>
Additive	<ul> <li>Antiblock: 2500 ppm</li> </ul>	<ul> <li>Processing Aid: No</li> </ul>	
	<ul> <li>Slip: 1000 ppm</li> </ul>	<ul> <li>Thermal Stabilizer: Yes</li> </ul>	
Applications	<ul> <li>Agricultural Film</li> </ul>	<ul> <li>Garment Film</li> </ul>	<ul> <li>Multilayer Packaging Film</li> </ul>
	<ul> <li>Bag in Box</li> </ul>	<ul> <li>General Packaging</li> </ul>	<ul> <li>Packaging Films</li> </ul>
	<ul> <li>Barrier Food Packaging</li> </ul>	, , ,	<ul> <li>Produce Bags</li> </ul>
	<ul> <li>Blown Film</li> </ul>	<ul> <li>Ice Bags</li> </ul>	<ul> <li>Refuse Bags</li> </ul>
	Bread Bags	<ul> <li>Industrial Liners</li> </ul>	<ul> <li>Shoppers</li> </ul>
	Food Packaging	Industrial Packaging	Stand Up Pouches
	Form Fill And Seal Pack		<ul> <li>Trash Bags</li> </ul>
	Freezer Film	• Liners	
Form(s)	• Pellets		
Revision Date	• 06/11/2020		
Resin Properties	Typical Value (E	English) Typical Value	(SI) Test Based On
Density / Specific Gravity	0.918 q		g/cm³ ASTM D792
Melt Index (190°C/2.16 kg)			g/10 min ASTM D1238
Peak Melting Temperature	252 °F		
The second secon			Method
hermal	Typical Value (E	English) Typical Value	(SI) Test Based On
Vicat Softening Temperature	207 °F	97.0	°C ExxonMobil Method
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Film Properties	Typical Value (E		
Tensile Strength at Yield MD	1300 p		MPa ASTM D882
Tensile Strength at Yield TD	1400 p	-	MPa ASTM D882
Tensile Strength at Break MD	6700 p		MPa ASTM D882
Tensile Strength at Break TD	4100 p		MPa ASTM D882
Elongation at Break MD	520 %		
Elongation at Break TD	690 %		
Secant Modulus MD - 1% Secant	26000 p		MPa ASTM D882
Secant Modulus TD - 1% Secant	30000 p		MPa ASTM D882
Dart Drop Impact	80 g		<del>-</del>
Elmendorf Tear Strength MD	90 g		<u> </u>
Elmendorf Tear Strength TD	450 g	450	g ASTM D1922
Puncture Force	7 lb	of 29	N ExxonMobil Method
Puncture Energy	13 in	ı·lb 1.5	J ExxonMobil Method
Optical Properties	Typical Value (E	English) Typical Value	(SI) Test Based On
Gloss (45°)	49	49	ASTM D2457
Haze	13 %	13	% ASTM D1003

Effective Date: 06/11/2020 ExxonMobil Page: 1 of:





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#### Legal Statement

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

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**

Film (1.0 mil/25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 395-415°F (202-213°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

#### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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