# ExxonMobil™ LLDPE LL 1001BT

## Linear Low Density Polyethylene Resin

### Product Description

LL 1001BT 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.

### General

| | | | |
|---|---|---|---|
| Availability [1] | ▪ Africa & Middle East | ▪ Asia Pacific | ▪ Europe |
| Additive | ▪ LL 1001BT: Antiblock: 2500 ppm; Slip: 1000 ppm; Processing Aid: No; Thermal Stabilizer: Yes | | |
| Applications | ▪ Agricultural Film<br>▪ Bag in Box<br>▪ Barrier Food Packaging<br>▪ Blown Film<br>▪ Bread Bags<br>▪ Food Packaging<br>▪ Form Fill And Seal Packaging<br>▪ Freezer Film | ▪ Garment Film<br>▪ General Packaging<br>▪ Heavy Duty Bags<br>▪ Ice Bags<br>▪ Industrial Liners<br>▪ Industrial Packaging<br>▪ Lamination Film<br>▪ Liners | ▪ Multilayer Packaging Film<br>▪ Packaging Films<br>▪ Produce Bags<br>▪ Refuse Bags<br>▪ Shoppers<br>▪ Stand Up Pouches<br>▪ Trash Bags |
| Revision Date | ▪ 05/22/2018 | | |

| Resin Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Density | 0.918 | g/cm³ | 0.918 | g/cm³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 1.0 | g/10 min | 1.0 | g/10 min | ASTM D1238 |
| Peak Melting Temperature | 248 | °F | 120 | °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Tensile Strength at Break MD | 8700 | psi | 60 | MPa | ASTM D882 |
| Tensile Strength at Break TD | 5200 | psi | 36 | MPa | ASTM D882 |
| Elongation at Break MD | 570 | % | 570 | % | ASTM D882 |
| Elongation at Break TD | 840 | % | 840 | % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 29000 | psi | 200 | MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 32000 | psi | 220 | MPa | ASTM D882 |
| Dart Drop Impact | 90 | g | 90 | g | ASTM D1709A |
| Elmendorf Tear Strength MD | 80 | g | 80 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 430 | g | 430 | g | ASTM D1922 |

| Optical Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Gloss (45°) | 48 | | 48 | | ASTM D2457 |
| Haze | 13 | % | 13 | % | 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.

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.

### Processing Statement

The film properties have been measured on 30 µm (1.18 mil) thick films. (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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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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