Ex_xonMobil

ExxonMobil™ LLDPE LL 1002AY Cast Linear Low Density Polyethylene Resin

Product Description

LL 1002AY is an LLDPE resin designed for cast films. It offers high gloss and excellent drawdown in both blown and cast film applications. LL 1002AY may also be used as a blend partner with LDPE resins to improve film properties and processability. TnPP is not intentionally added to LL 1002AY resin.

| General | | | | | |
|-------------------------------|---------------------------------------|-----------|---|---------------------------|----------------------|
| Availability ¹ | Europe | | Latin America | | |
| Additive | Antiblock: No | | Processing Aid: No | | |
| | Slip: No | | Thermal Stabilizer: Yes | | |
| Applications | Cast Film | | General Packaging | Perso | nal Care |
| | Cast Stretch Film | | Hygiene film | | |
| | Garment Film | | Packaging Films | | |
| Revision Date | • 07/16/2018 | | | | |
| 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) | 2.0 | g/10 min | 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 | 1100 | psi | 7.4 | MPa | ASTM D882 |
| Tensile Strength at Yield TD | 940 | psi | 6.5 | MPa | ASTM D882 |
| Tensile Strength at Break MD | 9000 | psi | 60 | MPa | ASTM D882 |
| Tensile Strength at Break TD | 3600 | psi | 25 | MPa | ASTM D882 |
| Elongation at Break MD | 420 | % | 420 | % | ASTM D882 |
| Elongation at Break TD | 830 | % | 830 | % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 17000 | psi | 110 | MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 19000 | psi | 130 | MPa | ASTM D882 |
| Dart Drop Impact | < 50 | 9 | < 50 | g | ASTM D1709A |
| Elmendorf Tear Strength MD | 20 | g | 20 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 430 | g | 430 | g | ASTM D1922 |
| Puncture Force | 10 | lbf | 43 | N | ExxonMobil Method |
| Puncture Energy | 21 | in·lb | 2.3 | J | ExxonMobil Method |
| Optical Properties | Typical Value | (English) | Typical Value | (SI) | Test Based On |
| Gloss (45°) | 98 | | 98 | | ASTM D2457 |
| Haze | 1.7 | % | 1.7 | % | ASTM D1003 |

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

Processing Statement

Film (0.8 mil / 20.3 micron) made from LL 1002AY on a 3.5 inch (88.9 mm) cast film line with a 5 inch (14 cm) melt curtain length, a 534°F (279°C) melt temperature, 80°F (26.7°C) chill roll temperature and 750 fpm (229 mpm) line speed.

ExxonMobil™ LLDPE LL 1002AY Cast

Linear Low Density Polyethylene Resin

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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.

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

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