

ExxonMobil LLDPE LL 1001X72 Linear Low Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

Product Description: LL 1001 are butane LLDPE blown film resins having good draw down. Films made from LL 1001 resins exhibit good tensile and toughness properties. Availability: Latin America, North America and South America Additive: Antiblock: 5000 ppmSlip: 850 ppmProcessing Aid: NoThermal Stabilizer: YesApplications: Agricultural FilmBag in BoxBarrier Food PackagingBlown FilmBread BagsFood packagingForm Fill and Seal PackagingFreezer FilmGarment FilmGeneral PackagingHeavy Duty BagsIce BagsIndustrial LinersIndustrial PackagingLamination FilmLinersMultilayer Packaging FilmPackaging FilmsProduce BagsRefuse BagsShoppersStand Up PouchesTrash BagsInformation provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-LLDPE-LL-1001X72-Linear-Low-Density-Polyethylene-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|-------------------|
| Density | 0.918 g/cc | 0.0332 lb/in ³ | ExxonMobil method |
| Melt Flow | 1.0 g/10 min @Load 2.16 kg, Temperature 190 °C | 1.0 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |
| Antiblock Level | 5000 ppm | 5000 ppm | |
| Slip Level | 850 ppm | 850 ppm | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------|------------|-------------------|
| Film Tensile Strength at Yield, MD | 9.65 MPa | 1400 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 9.65 MPa | 1400 psi | ASTM D882 |
| Film Elongation at Break, MD | 580 % | 580 % | ASTM D882 |
| Film Elongation at Break, TD | 850 % | 850 % | ASTM D882 |
| Puncture Energy | 3.16 J | 2.33 ft-lb | ExxonMobil Method |
| Elmendorf Tear Strength MD | 80 g | 80 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 400 g | 400 g | ASTM D1922 |
| Dart Drop Test | 100 g | 0.221 lb | ASTM D1709A |
| Film Tensile Strength at Break, MD | 53.1 MPa | 7700 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 35.2 MPa | 5100 psi | ASTM D882 |
| 1% Secant Modulus, MD | 193 MPa | 28000 psi | ASTM D882 |
| 1% Secant Modulus, TD | | | ASTM D882 |

| Mechanical Properties | 221 MPa Metric | 32000 psi English | Comments |
|-----------------------|-------------------|----------------------|---------------------------------------|
| Thermal Properties | Metric | English | Comments |
| Melting Point | <= 250 °C | <= 482 °F | Peak Melting Point; ExxonMobil method |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------------|
| Haze | 15 % | 15 % | ASTM D1003 |
| Gloss | 45 % | 45 % | 45°; ASTM D2457 |

| Descriptive Properties | Value | Comments |
|------------------------|--------|-------------------|
| Puncture Force | 10 lbf | ExxonMobil Method |

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