

ExxonMobil™ LD 4023.AT

(Legacy name: ExxonMobil™ LDPE LD 160AT)

Low Density Polyethylene

Product Description

LD 4023 series are LDPE grades, which offer good draw down and optical properties.

General

| | | | |
|---------------------------|------------------------|-----------------|---------------------------|
| Availability ¹ | ▪ Africa & Middle East | ▪ Asia Pacific | |
| Additive | ▪ Antiblock: 1200 ppm | ▪ Slip: 900 ppm | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Cast Film | ▪ Laundry Film | ▪ Profile Extrusion |
| | ▪ High Clarity Film | ▪ Produce Bags | ▪ Zipper Bag |
| Revision Date | ▪ 01/01/2017 | | |

| Resin Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.923 g/cm ³ | 0.923 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 4.0 g/10 min | 4.0 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 226 °F | 108 °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD | 1500 psi | 10 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1400 psi | 9.6 MPa | ASTM D882 |
| Tensile Strength at Break MD | 3300 psi | 23 MPa | ASTM D882 |
| Tensile Strength at Break TD | 2200 psi | 15 MPa | ASTM D882 |
| Elongation at Break MD | 180 % | 180 % | ASTM D882 |
| Elongation at Break TD | 490 % | 490 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 25000 psi | 170 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 30000 psi | 210 MPa | ASTM D882 |
| Dart Drop Impact | 70 g | 70 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 290 g | 290 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 110 g | 110 g | ASTM D1922 |

| Optical Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 71 | 71 | ASTM D2457 |
| Haze | 5.2 % | 5.2 % | ASTM D1003 |

Additional Information

LD 4023.AT can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migrations or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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

The test specimen were prepared on LD 4023.AT, 30µm (1.18 mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.5 and temperature profile of 180 - 190°C (356 - 374°F) 338°F.

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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