Product Datasheet

ExxonMobil Signature Polymers

# ExxonMobil™ LD 1224.AC

## Low Density Polyethylene

### Product Description

ExxonMobil™ LD 1224.AC is an LDPE grade, which offers good draw down combined with good mechanical strength.

### General

| | | | |
|---|---|---|---|
| Availability [1] | ▪ Africa & Middle East | ▪ Europe | |
| Additive | ▪ Antiblock: 450 ppm | ▪ Slip: 500 ppm | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Blend Partner<br>▪ Co-Extrusion Films<br>▪ Collation Shrink<br>▪ Food Packaging | ▪ Form Fill And Seal Packaging<br>▪ Freezer Film<br>▪ Lamination Film<br>▪ Medium Duty Shrink Film | ▪ Produce Bags<br>▪ Shoppers |
| Revision Date | ▪ 01/01/2017 | | |

| Resin Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Density | 0.924 | g/cm³ | 0.924 | g/cm³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 1.2 | g/10 min | 1.2 | g/10 min | ASTM D1238 |
| Peak Melting Temperature | 230 | °F | 110 | °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Tensile Strength at Break MD | 3500 | psi | 24 | MPa | ASTM D882 |
| Tensile Strength at Break TD | 2900 | psi | 20 | MPa | ASTM D882 |
| Elongation at Break MD | 200 | % | 200 | % | ASTM D882 |
| Elongation at Break TD | 510 | % | 510 | % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 34000 | psi | 240 | MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 40000 | psi | 280 | MPa | ASTM D882 |
| Dart Drop Impact | 140 | g | 140 | g | ASTM D1709A |
| Elmendorf Tear Strength MD | 450 | g | 450 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 160 | g | 160 | g | ASTM D1922 |

| Optical Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Gloss (45°) | 62 | | 62 | | ASTM D2457 |
| Haze | 8.5 | % | 8.5 | % | ASTM D1003 |

### Processing Statement

The test specimen were prepared on ExxonMobil™ LD 1224.AC, 50µm (1.97mil) thick film, using a 200 mm (7.9 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratioof 2.5 and temperature profile of 180 - 190°C (356 - 374°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.



Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: Contact Us

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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene