ExxonMobil Signature Polymers

# ExxonMobil™ LD 03322.BW1

## Low Density Polyethylene

### Product Description

ExxonMobil™ LD 03322.BW1 resin is a fractional melt index LDPE with medium optical properties.

### General

| | | | |
|---|---|---|---|
| Availability [1] | ▪ Africa & Middle East<br>▪ Asia Pacific | ▪ Europe<br>▪ Latin America | ▪ North America |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Agricultural Film<br>▪ Blend Partner<br>▪ Construction Film | ▪ Foams<br>▪ Heavy Duty Bags<br>▪ High Performance Collation Shrink | ▪ Pallet Shrink Film<br>▪ Profile Extrusion |
| Form(s) | ▪ Pellets | | |
| Revision Date | ▪ 07/04/2024 | | |

| Resin Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Density | 0.922 | g/cm³ | 0.922 | g/cm³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 0.33 | g/10 min | 0.33 | g/10 min | ASTM D1238 |
| Peak Melting Temperature | 232 | °F | 111 | °C | ExxonMobil Method |

| Thermal | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Vicat Softening Temperature | 199 | °F | 93.0 | °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Tensile Strength at Yield MD | 1800 | psi | 13 | MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1800 | psi | 12 | MPa | ASTM D882 |
| Tensile Strength at Break MD | 4500 | psi | 31 | MPa | ASTM D882 |
| Tensile Strength at Break TD | 4000 | psi | 27 | MPa | ASTM D882 |
| Elongation at Break MD | 150 | % | 150 | % | ASTM D882 |
| Elongation at Break TD | 630 | % | 630 | % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 32000 | psi | 220 | MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 43000 | psi | 290 | MPa | ASTM D882 |
| Dart Drop Impact | 180 | g | 180 | g | ASTM D1709A |
| Elmendorf Tear Strength MD | 190 | g | 190 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 150 | g | 150 | g | ASTM D1922 |
| Puncture Force | 17 | lbf | 76 | N | ExxonMobil Method |
| Puncture Energy | 19 | in·lb | 2.2 | J | ExxonMobil Method |

| Optical Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Gloss | 39 | | 39 | | ASTM D2457 |
| Haze | 15 | % | 15 | % | ASTM D1003 |

### 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

Film (2 mil / 50.8 micron) made from LD 03322.BW1 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blown-up ratio, a melt temperature of 360-380°F (182-193°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).



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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: Contact Us

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