ExxonMobil Signature Polymers

# ExxonMobil™ C6LL 0825.36

*(Legacy name: ExxonMobil™ LLDPE LL 3201.36)*

## C6 Linear Low Density Polyethylene

### Product Description

ExxonMobil™ C6LL 0825.36 is an ethylene 1-hexene linear low density polyethylene film resin. Films made from ExxonMobil™ C6LL 0825.36 have outstanding tensile, stiffness and toughness properties. These superior properties, along with good drawdown capability, permit usage in many demanding packaging applications.

### General

| | | |
|---|---|---|
| Availability [1] | ▪ Latin America | ▪ North America |
| Additive | ▪ Antiblock: 5000 ppm<br>▪ Slip: No | ▪ Processing Aid: Yes<br>▪ Thermal Stabilizer: Yes |
| Applications | ▪ Freezer Film<br>▪ Grocery Sacks | ▪ Heavy Duty Bags<br>▪ Merchandise Bags |
| Form(s) | ▪ Pellets | |
| Revision Date | ▪ 10/15/2024 | |

| Resin Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Density | 0.925 | g/cm³ | 0.925 | g/cm³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 0.80 | g/10 min | 0.80 | g/10 min | ASTM D1238 |
| Peak Melting Temperature | 257 | °F | 125 | °C | ExxonMobil Method |

| Thermal | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Vicat Softening Temperature | 226 | °F | 108 | °C | ExxonMobil Method |

| Film Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Tensile Strength at Yield MD | 1700 | psi | 12 | MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1900 | psi | 13 | MPa | ASTM D882 |
| Tensile Strength at Break MD | 8300 | psi | 60 | MPa | ASTM D882 |
| Tensile Strength at Break TD | 6700 | psi | 46 | MPa | ASTM D882 |
| Elongation at Break MD | 530 | % | 530 | % | ASTM D882 |
| Elongation at Break TD | 790 | % | 790 | % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 38000 | psi | 260 | MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 46000 | psi | 320 | MPa | ASTM D882 |
| Dart Drop Impact | 130 | g | 130 | g | ASTM D1709A |
| Elmendorf Tear Strength MD | 220 | g | 220 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 670 | g | 670 | g | ASTM D1922 |
| Puncture Force | 11 | lbf | 47 | N | ExxonMobil Method |
| Puncture Energy | 33 | in·lb | 3.7 | J | ExxonMobil Method |

| Optical Properties | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Gloss (45°) | 58 | | 58 | | ASTM D2457 |
| Haze | 14 | % | 14 | % | ASTM D1003 |

### Legal Statement

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

This product is not intended for use in medical applications and should not be used in any such applications.

### Processing Statement

Film (1.0 mil/25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 395-415°F (202-213°C), a 60 mil (1.52 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 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: www.exxonmobilchemical.com/ContactUs



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