Product Datasheet

ExxonMobil Signature Polymers

# ExxonMobil™ C6LL 1017.63

## C6 Linear Low Density Polyethylene

### Product Description

ExxonMobil™ C6LL 1017.63 is an ethylene 1-hexene linear low density polyethylene resin formulated for blown film extrusion. Films made from this resin have outstanding tensile and toughness properties. Superior strength properties, along with excellent drawability, make this a very versatile packaging film resin.

### General

| | | | |
|---|---|---|---|
| Availability [1] | ▪ Latin America | ▪ North America | |
| Additive | ▪ Antiblock: No<br>▪ Slip: No | ▪ Processing Aid: Yes<br>▪ Thermal Stabilizer: Yes | |
| Applications | ▪ Freezer Film<br>▪ Heavy Duty Bags | ▪ Ice Bags<br>▪ Stretch Film | ▪ Trash Bags |
| Form(s) | ▪ Pellets | | |
| Revision Date | ▪ 10/01/2019 | | |

| Resin Properties | Typical Value | (English) | Typical Value | (SI) | Test Based On |
|---|---|---|---|---|---|
| Density / Specific Gravity | 0.917 | g/cm³ | 0.917 | g/cm³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 1.0 | g/10 min | 1.0 | g/10 min | ASTM D1238 |
| Peak Melting Temperature | 255 | °F | 124 | °C | ExxonMobil Method |

| Film Properties | Typical Value | (English) | Typical Value | (SI) | Test Based On |
|---|---|---|---|---|---|
| Tensile Strength at Yield MD | 1300 | psi | 9.3 | MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1400 | psi | 9.9 | MPa | ASTM D882 |
| Tensile Strength at Break MD | 7800 | psi | 50 | MPa | ASTM D882 |
| Tensile Strength at Break TD | 6800 | psi | 47 | MPa | ASTM D882 |
| Elongation at Break MD | 540 | % | 540 | % | ASTM D882 |
| Elongation at Break TD | 790 | % | 790 | % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 28000 | psi | 190 | MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 35000 | psi | 240 | MPa | ASTM D882 |
| Dart Drop Impact | 170 | g | 170 | g | ASTM D1709A |
| Elmendorf Tear Strength MD | 310 | g | 310 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 710 | g | 710 | g | ASTM D1922 |
| Puncture Force | 9 | lbf | 41 | N | ExxonMobil Method |
| Puncture Energy | 30 | in·lb | 3.4 | J | ExxonMobil Method |

| Optical Properties | Typical Value | (English) | Typical Value | (SI) | Test Based On |
|---|---|---|---|---|---|
| Gloss (45°) | 38 | | 38 | | ASTM D2457 |
| Haze | 13 | % | 13 | % | 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 from ExxonMobil™ C6LL 1017.63 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperatureof 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).

### 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