

# ExxonMobil™ LLDPE LL 6100.17

## Linear Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LL 6100.17 is a narrow molecular weight butene copolymer designed for applications that require easy processability. This resin offers outstanding toughness and tear resistance in freezer applications for food packaging.

### General

|              |                           |              |                           |
|--------------|---------------------------|--------------|---------------------------|
| Additive     | ▪ Antiblock: No           | ▪ Slip: No   | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Closures and Dispensers | ▪ Housewares | ▪ Protective Caps         |
| Form(s)      | ▪ Pellets                 |              |                           |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.925 g/cm <sup>3</sup> | 0.925 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 20 g/10 min             | 20 g/10 min             | ASTM D1238        |
| Peak Melting Temperature   | 250 °F                  | 121 °C                  | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 189 °F                  | 87 °C              | ASTM D1525    |

| Molded Properties                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield             | 1900 psi                | 13 MPa             | ASTM D638     |
| Elongation at Break                   | 360 %                   | 360 %              | ASTM D638     |
| Flexural Modulus                      |                         |                    | ASTM D790B    |
| 1% Secant                             | 69000 psi               | 480 MPa            |               |
| 2% Secant                             | 60000 psi               | 410 MPa            |               |
| Environmental Stress-Crack Resistance |                         |                    | ASTM D1693B   |
| 10% Igepal, F50                       | 110 hr                  | 110 hr             |               |

