# Exxon Mobil LD 637.LI

Molding, extrusion and compounding resin

## Description

LD 637.LI is a high melt index LDPE homopolymer intended for injection molding or compounding applications requiring high flow. It is ideal for tamper-evident, tear-to-open closures. It can also be used in compounds and concentrates.

## Applications

- Caps
- Closures
- Overcaps
- Viscosity modifier

| Additive Package | Antiblock | Slip | Thermal Stabilizer |
|---|---|---|---|
| LD 637.LI | No | 550 ppm | No |

| Resin Properties | Test Based On | Typical Value / Unit | |
|---|---|---|---|
| Melt Index | ASTM D1238 | 40 g/10 min | |
| Density | ExxonMobil method | 0.922 g/cm$^3$ | |
| Peak Melting Temperature | ExxonMobil method | 105°C | 221°F |

| Molded Properties | | | | |
|---|---|---|---|---|
| Flexural Modulus, 1% secant | | ASTM D790 | 279 MPa | 40500 psi |
| Tensile Strength at Yield | | ASTM D638 | 12.3 MPa | 1780 psi |
| Elongation at Yield | | ASTM D638 | 30% | |
| Tensile Strength at Break | | ASTM D638 | 7.6 MPa | 1100 psi |
| Elongation at Break | | ASTM D638 | 110% | |
| Vicat Softening Point | | ASTM D1525 | 86°C | 187°F |
| Shore Hardness - | Scale A (15 s) | ASTM D2240 | 88 | |
| | Scale D (15 s) | | 43 | |
| Instrumented Impact, Total Energy | | ASTM D3763 | | |
| | at 23°C | | 19 J | 14 ft-lb |
| | at 0°C | | 22 J | 16 ft-lb |

The test specimen were prepared using ASTM D4703, Procedure C.

LD 637 LI can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply.

*** The reported values are typical and do not constitute a warranty but a guide for the diverse application possibilities.