# LUCENE™ LC180

**Polyolefin Elastomer**

## Applications

- General purpose thermoplastic elastomer for polymer modification
- Shoe sole, Wire & Cable, Packaging Films

## Description

- LUCENE™ LC180 is an ethylene-1-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ LC180 is an excellent impact modifier for plastics and offers unique performance capabilities for compounded products.
- LUCENE™ LC180 complies with FDA regulation 21 CFR 177.1520(c)(3.2c).

## Typical properties

| Characteristics | Test Method | Unit | Value |
|---|---|---|---|
| Physical(1) | | | |
| Density | ASTM D1505 | g/㎤ | 0.885 |
| MFR(190℃,2.16kg) | ASTM D1238 | g/10min | 1.2 |
| Mooney Viscosity(ML1+4@121℃) | ASTM D1646 | MU | 20 |
| Mechanical(2) | | | |
| Tensile Strength at Break | ASTM D638(3) | Mpa | 28 |
| Elongation at Break | ASTM D638(3) | % | >800 |
| Tear Strength | ASTM D624 | kN/m | 58 |
| FlexuralModulus1% Secant | ASTM D790 | Mpa | 30 |
| Hardness | | | |
| Shore hardness(Shore A) | ASTM D2240 | - | 86 |
| Thermal | | | |
| Melting Temperature | LG | ℃ | 73 |
| Glass Transition Temperature | LG | ℃ | -45 |

(1) The properties data in this table are typical values, and not guaranteed specification.
(2) Typical resin property values are measured on a standard compression molded specimens
(3) Speed of 500 mm/min.

## Processing information

- LUCENE™ LC180 may be processed on conventional equipment. It is recommended that hopper feed throat should be cooled below 30℃ to prevent from pellet bridging with low melting point .

For additional sales, order and technical assistance

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