

# LUCENE™ LC160

Polyolefin Elastomer

## Applications

- General purpose thermoplastic elastomer for polymer modification
- Automotive interior/exterior, Shoe sole, Wire & Cable

## Description

- LUCENE™ **LC160** is an ethylene-1-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ **LC160** is an excellent impact modifier for plastics and offers unique performance capabilities for compounded products.

## Typical properties

| Characteristics                 | Test Method              | Unit              | Value |
|---------------------------------|--------------------------|-------------------|-------|
| <b>Physical<sup>(1)</sup></b>   |                          |                   |       |
| Density                         | ASTM D1505               | g/cm <sup>3</sup> | 0.863 |
| MFR(190°C,2.16kg)               | ASTM D1238               | g/10min           | 0.5   |
| Mooney Viscosity(ML1+4@121°C)   | ASTM D1646               | MU                | 36    |
| <b>Mechanical<sup>(2)</sup></b> |                          |                   |       |
| Tensile Strength at Break       | ASTM D638 <sup>(3)</sup> | Mpa               | 6.1   |
| Elongation at Break             | ASTM D638 <sup>(3)</sup> | %                 | >900  |
| Tear Strength                   | ASTM D624                | kN/m              | 33    |
| Flexural Modulus 1% Secant      | ASTM D790                | Mpa               | 10    |
| <b>Hardness</b>                 |                          |                   |       |
| Shore hardness(Shore A)         | ASTM D2240               | -                 | 57    |
| <b>Thermal</b>                  |                          |                   |       |
| Melting Temperature             | LG                       | °C                | 46    |
| Glass Transition Temperature    | LG                       | °C                | -56   |

(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™ **LC160** may be processed on conventional equipment. It is recommended that hopper feed throat should be cooled below 30°C to prevent from pellet bridging with low melting point .

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