

# LUCENE™ LC100

Polyolefin Plastomer

## Applications

- General purpose thermoplastic elastomer for polymer modification
- Lamination film, Packaging Film

## Description

- LUCENE™ LC100 is an ethylene-1-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ LC100 is mainly intended for the extrusion of blown film with high mechanical property for the manufacture of lamination and packaging film.
- LUCENE™ LC100 does not contain additives.
- LUCENE™ LC100 complies with FDA regulation 21 CFR 177.1520(c)(3.2c).

## Typical properties

| Characteristics                 | Test Method | Unit                     | Value |     |
|---------------------------------|-------------|--------------------------|-------|-----|
| <b>Physical<sup>(1)</sup></b>   |             |                          |       |     |
| Density                         | ASTM D1505  | g/cm <sup>3</sup>        | 0.903 |     |
| MFR(190°C,2.16Kg)               | ASTM D1238  | g/10min                  | 1.2   |     |
| <b>Mechanical<sup>(2)</sup></b> |             |                          |       |     |
| Tensile Strength at Break       | MD          | ASTM D882 <sup>(3)</sup> | MPa   | 52  |
|                                 | TD          |                          |       | 61  |
| Elongation at Break             | MD          | ASTM D882 <sup>(3)</sup> | %     | 620 |
|                                 | TD          |                          |       | 680 |
| Tear Strength                   | MD          | ASTM D1004               | kN/m  | 81  |
|                                 | TD          |                          |       | 83  |
| <b>Hardness<sup>(4)</sup></b>   |             |                          |       |     |
| Shore hardness(Shore A)         | ASTM D2240  | -                        | 91    |     |
| <b>Thermal</b>                  |             |                          |       |     |
| Melting Temperature             | LG Method   | °C                       | 96    |     |
| Glass Transition Temperature    | LG Method   | °C                       | -31   |     |
| Vicat Softening point           | ASTM D1525  | °C                       | 86    |     |

(1) The properties data in this table are typical values, and not guaranteed specification.

(2) Typical film property values are measured on 50 $\mu$ m blown film specimens

(3) Speed of 500 mm/min

(4) Typical property values are measured on a standard compression molded specimens.

## Processing information

- LUCENE™ LC100 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 .

For additional sales, order and technical assistance

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