

# LUCENE™ LF100

## Polyolefin Plastomer

### Applications

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

### Description

- LUCENE™ LF100 is an ethylene-1-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ LF100 is mainly intended for the extrusion of blown film with high mechanical property for the manufacture of lamination and packaging film.
- LUCENE™ LF100 contains Anti-oxidants additives.

### Typical properties<sup>(1)</sup>

| Characteristics           |    | Test Method               | Unit    | Value |
|---------------------------|----|---------------------------|---------|-------|
| Physical                  |    |                           |         |       |
| Density                   |    | ASTM D1505                | g/cm³   | 0.902 |
| MFR(190°C,2.16Kg)         |    | ASTM D1238                | g/10min | 1.2   |
| Yellow Index              |    | LG Method                 | -       | - 1.5 |
| Mechanical <sup>(2)</sup> |    |                           |         |       |
| Tensile Strength at Break | MD | ASTM D882 <sup>(3)</sup>  | MPa     | 43    |
|                           | TD |                           |         | 48    |
| Elongation at Break       | MD | ASTM D882 <sup>(3)</sup>  | %       | 590   |
|                           | TD |                           |         | 650   |
| Elmendorf Tear            | MD | ASTM D1922 <sup>(3)</sup> | g/μm    | 14.4  |
|                           | TD |                           |         | 17.3  |
| Falling Dart impact       |    | ASTM D1709 <sup>(4)</sup> | g       | 1460  |
| Optical <sup>(2)</sup>    |    |                           |         |       |
| Haze                      |    | ASTM D1003                | %       | 3.0   |
| Thermal                   |    |                           |         |       |
| Melting Temperature       |    | LG Method                 | °C      | 100   |

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

(2) Typical film property values are measured on 60μm blown film specimens(BUR 2.3)

(3) Speed of 500 mm/min

(4) Method B

### Processing information

- LUCENE™ LF100 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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