# LUCENE™ LC305

**Polyolefin Elastomer for Polymer Modification**

**Applications**
- •General purpose thermoplastic elastomers, Polymer modification
- • Shoe sole, Sealing layer in packaging film

**Performance**
- • Improved impact strength and toughness
- • Outstanding clarity
- • Excellent compression set and tear strength

| Resin Properties | Test methods | Units | Values(1) |
|---|---|---|---|
| Melt Index, 2.16kg/190℃ | ASTM D 1238 | g/10min | 3.0 |
| Density @ 23℃ | ASTM D 1505 | g/㎤ | 0.903 |
| Mooney viscosity, $ML_{1+4}$ @ 121℃ | ASTM D 1646 | ℃ | 12 |

| Physical Properties | Test methods | Units | Values(2) |
|---|---|---|---|
| Tensile Strength @ Break | ASTM D 638(3) | MPa | 17 |
| Elongation @ Break | ASTM D 638(3) | % | >800 |
| Flexural Modulus, 1% | ASTM D 790 | Mpa | 85 |
| Hardness, Shore A | ASTM D 2240 | - | 90 |
| Tear Strength, Type C | ASTM D 624 | kN/m | 88 |

| Thermal Properties | Test methods | Units | Values |
|---|---|---|---|
| Melting Point, DSC | LG Method | ℃ | 90 |
| Glass Transition Temperature | LG Method | ℃ | -33 |

(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 508 mm/min.

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## Description

**LC305 is an ethylene-1-butene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.**

**This resin is an excellent impact modifier for plastics and offers excellent performance in shoe sole application.**