

# LUCENE™ LC175

Polyolefin Elastomer

## Applications

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

## Description

- LUCENE™ **LC175** is an ethylene-1-butene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ **LC175** 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>	<b>0.870</b>
MFR(190°C, 2.16kg)	ASTM D1238	g/10min	<b>1.1</b>
Mooney Viscosity(ML1+4@121°C)	ASTM D1646	MU	<b>18</b>
<b>Mechanical<sup>(2)</sup></b>			
Tensile Strength at Break	ASTM D638 <sup>(3)</sup>	Mpa	<b>4.4</b>
Elongation at Break	ASTM D638 <sup>(3)</sup>	%	<b>&gt;900</b>
Tear Strength	ASTM D624	kN/m	<b>34</b>
Flexural Modulus 1% Secant	ASTM D790	Mpa	<b>12</b>
<b>Hardness</b>			
Shore hardness(Shore A)	ASTM D2240	-	<b>63</b>
<b>Thermal</b>			
Melting Temperature	LG	°C	<b>42</b>
Glass Transition Temperature	LG	°C	<b>-51</b>

(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™ **LC175** 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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