

# LUCENE™ LF575P

Polyolefin Elastomer

## Applications

- General purpose thermoplastic elastomer for polymer modification
- Packaging Film, Photovoltaic encapsulant, Automotive interior/exterior and Shoe sole

## Description

- LUCENE™ **LF575P** is an ethylene-1-butene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ **LF575P** provides outstanding mechanical property for the manufacture of lamination and packaging film and excellent performance for compounded products.

## Typical properties

Characteristics <sup>(1)</sup>	Test Method	Unit	Value
<b>Physical</b>			
Density	ASTM D1505	g/cm <sup>3</sup>	<b>0.876</b>
MFR(190°C, 2.16kg)	ASTM D1238	g/10min	<b>5.0</b>
<b>Mechanical<sup>(2)</sup></b>			
Tensile Strength at Break	ASTM D638 <sup>(3)</sup>	MPa	<b>6.0</b>
Elongation at Break	ASTM D638 <sup>(3)</sup>	%	<b>&gt; 1000</b>
Tear Strength	ASTM D624	kN/m	<b>34</b>
Flexural Modulus 1% Secant	ASTM D790	MPa	<b>12</b>
Shore hardness(Shore A)	ASTM D2240	-	<b>72</b>
Shore hardness(Shore D)	ASTM D2240		<b>17</b>
<b>Thermal</b>			
Melting Temperature	LG	°C	<b>61</b>
Crystallization Temperature	LG	°C	<b>44</b>
Glass Transition Temperature	LG	°C	<b>-48</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™ **LF575P** 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.