

# POE LC670

## Polyolefin Elastomer for Polymer Modification

**Applications**

- General purpose thermoplastic elastomer for polymer modification
- Automotive interior/exterior, Shoe sole, PVEN

**Performance**

- Improved impact strength in polypropylene
- Excellent filler acceptance
- Available as pellet form
- Outstanding toughness with flexible performance
- Reduction of product weight

Resin Properties	Test methods	Units	Values <sup>(1)</sup>
Melt Index, 2.16kg/190℃	ASTM D 1238	g/10min	5.0
Density @ 23℃	ASTM D 1505	g/cm <sup>3</sup>	0.870
Mooney viscosity, ML <sub>1+4</sub> @ 121℃	ASTM D 1646	℃	9

Physical Properties	Test methods	Units	Values <sup>(2)</sup>
Tensile Strength @ Break	ASTM D 638 <sup>(3)</sup>	MPa	5.5
Elongation @ Break	ASTM D 638 <sup>(3)</sup>	%	>1000
Flexural Modulus, 1%	ASTM D 790	Mpa	13
Hardness, Shore A	ASTM D 2240	-	70
Tear Strength, Type C	ASTM D 624	kN/m	38

Thermal Properties	Test methods	Units	Values
Melting Point, DSC	LG Method	℃	58
Glass Transition Temperature	LG Method	℃	-55

(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

LC670 is an ethylene-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.

This resin is an excellent impact modifier for plastics and offers unique performance capabilities for compounded products.

## Regulatory requirements

LC670 complies with FDA regulation 21 CFR 177.1520

## Cleanness technology

LC670 is produced by highly innovated cleanness process

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