

# POE LC670

## Polyolefin Elastomer for Polymer Modification

**Applications** • General purpose thermoplastic elastomers, Polymer modification

**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°C	ASTM D 1238	g/10min	5.0
Density @ 23°C	ASTM D 1505	g/cm <sup>3</sup>	0.870
Mooney viscosity, ML <sub>1+4</sub> @ 121°C	ASTM D 1646	°C	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	°C	58
Glass Transition Temperature	LG Method	°C	-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**

**\* Notice**

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