

LUCENETM LC170

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 ⁽¹⁾
Melt Index, 2.16kg/190 °C	ASTM D 1238	g/10min	1.1
Density @ 23 °C	ASTM D 1505	g/cm ³	0.870
Mooney viscosity, ML ₁₊₄ @ 121 °C	ASTM D 1646	°C	23

Physical Properties	Test methods	Units	Values ⁽²⁾
Tensile Strength @ Break	ASTM D 638 ⁽³⁾	MPa	9.5
Elongation @ Break	ASTM D 638 ⁽³⁾	%	>900
Flexural Modulus, 1%	ASTM D 790	Mpa	14
Hardness, Shore A	ASTM D 2240	-	71
Tear Strength, Type C	ASTM D 624	kN/m	40

Thermal Properties	Test methods	Units	Values
Melting Point, DSC	LG Method	°C	58
Glass Transition Temperature	LG Method	°C	-53

(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

LC170 is an ethylene-1-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.

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