

LUCENETM LC175

Polyolefin Elastomer for Polymer Modification

- Applications**
- General purpose thermoplastic elastomers, Polymer modification
 - Soft and hard TPO compounds

- 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	MU	18

Physical Properties	Test methods	Units	Values ⁽²⁾
Tensile Strength @ Break	ASTM D 638 ⁽³⁾	MPa	4.4
Elongation @ Break	ASTM D 638 ⁽³⁾	%	>900
Flexural Modulus, 1%	ASTM D 790	Mpa	12
Hardness, Shore A	ASTM D 2240	-	63
Tear Strength, Type C	ASTM D 624	kN/m	34

Thermal Properties	Test methods	Units	Values
Melting Point, DSC	LG Method	°C	42
Glass Transition Temperature	LG Method	°C	-51

(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.

LUCENETM LC175

Polyolefin Elastomer for Polymer Modification

•Description

LUCENE LC175 is an ethylene-1-butene 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.

* Notice

Because LG Chem cannot anticipate or control the many different conditions under which this information and/or product may be used, it does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. Before using LG Chem product, customer and other users should make their own independent determination that the product is suitable for the intended use. They should also ensure that they can use the LG Chem product safely and legally. Nothing contained herein shall constitute any warranty (express or implied, of merchantability, fitness for a particular purpose or otherwise), nor is protection from any law or patent to be inferred. No one is authorized to make such warranties or assume any liabilities on behalf of LG Chem except in writing signed by a duly authorized LG Chem employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at LG Chem's option, and in no event shall LG Chem be liable for special, consequential, incidental, punitive or exemplary damages.