

LUCENETM LC305

Polyolefin Elastomer for Polymer Modification

Applications

- General purpose thermoplastic elastomers, Polymer modification
- Shoe sole, Sealing layer in packaging film

Performance

- Improved impact strength and toughness
- Outstanding clarity
- Excellent compression set and tear strength

Resin Properties	Test methods	Units	Values ⁽¹⁾
Melt Index, 2.16kg/190℃	ASTM D 1238	g/10min	3.0
Density @ 23℃	ASTM D 1505	g/cm ³	0.903
Mooney viscosity, ML ₁₊₄ @ 121℃	ASTM D 1646	℃	12

Physical Properties	Test methods	Units	Values ⁽²⁾
Tensile Strength @ Break	ASTM D 638 ⁽³⁾	MPa	17
Elongation @ Break	ASTM D 638 ⁽³⁾	%	>800
Flexural Modulus, 1%	ASTM D 790	Mpa	85
Hardness, Shore A	ASTM D 2240	-	90
Tear Strength, Type C	ASTM D 624	kN/m	88

Thermal Properties	Test methods	Units	Values
Melting Point, DSC	LG Method	℃	90
Glass Transition Temperature	LG Method	℃	-33

(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

LC305 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 excellent performance in shoe sole application.

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