

LUCENE™ LC180

Polyolefin Elastomer

Applications

- General purpose thermoplastic elastomer for polymer modification
- Shoe sole, Wire & Cable, Packaging Films

Description

- LUCENE™ **LC180** is an ethylene-1-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ **LC180** is an excellent impact modifier for plastics and offers unique performance capabilities for compounded products.
- LUCENE™ **LC180** complies with FDA regulation 21 CFR 177.1520(c)(3.2c).

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.885
MFR(190°C,2.16kg)	ASTM D1238	g/10min	1.2
Mooney Viscosity(ML1+4@121°C)	ASTM D1646	MU	20
Mechanical⁽²⁾			
Tensile Strength at Break	ASTM D638 ⁽³⁾	Mpa	28
Elongation at Break	ASTM D638 ⁽³⁾	%	>800
Tear Strength	ASTM D624	kN/m	58
Flexural Modulus 1% Secant	ASTM D790	Mpa	30
Hardness			
Shore hardness(Shore A)	ASTM D2240	-	86
Thermal			
Melting Temperature	LG	°C	73
Glass Transition Temperature	LG	°C	-45

(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 500 mm/min.

Processing information

- LUCENE™ **LC180** may be processed on conventional equipment. It is recommended that hopper feed throat should be cooled below 30°C to prevent from pellet bridging with low melting point .

For additional sales, order and technical assistance

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