

LUCENE™ LC160

Polyolefin Elastomer

Applications

- General purpose thermoplastic elastomer for polymer modification
- Automotive interior/exterior, Shoe sole, Wire & Cable

Description

- LUCENE™ LC160 is an ethylene-1-octene copolymer produced using LG Chem's metallocene polymerization catalyst and solution process technology.
- LUCENE™ LC160 is an excellent impact modifier for plastics and offers unique performance capabilities for compounded products.

Typical properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
Density	ASTM D1505	g/cm ³	0.863
MFR(190°C,2.16kg)	ASTM D1238	g/10min	0.5
Mooney Viscosity(ML1+4@121°C)	ASTM D1646	MU	36
Mechanical⁽²⁾			
Tensile Strength at Break	ASTM D638 ⁽³⁾	Mpa	6.1
Elongation at Break	ASTM D638 ⁽³⁾	%	>900
Tear Strength	ASTM D624	kN/m	33
Flexural Modulus 1% Secant	ASTM D790	Mpa	10
Hardness			
Shore hardness(Shore A)	ASTM D2240	-	57
Thermal			
Melting Temperature	LG	°C	46
Glass Transition Temperature	LG	°C	-56

(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™ LC160 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

Revised :06/19/2017

Head office PO Division, LG Chem Ltd.
Yeouido P.O.Box 672, 21st floor LG Twin Tower,
Yeouido-daero 128, Yeongdeungpo-gu Seoul, Korea.
Tel. 82-2-3773-3028

TS&D PO TECH Center. PO TS Team
188, Munji-ro, Yuseong-gu, Daejeon, 34122, Korea.
Tel. 82-42-722-5078

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products."

LUCENE™ LC160

Polyolefin Elastomer

Storage and handling Recommendations

LUCENE™ LC160 is available in free-flowing pelletized form designed for use in conventional polymer fabrication systems. The proper storage and handling of these product is extremely important for the products to remain flowable for transport and processing without pellet blocking.

- **To prevent pellet blocking**
 - To minimize static load, do not double stack pallets.
 - Keeping storage and handling temperature between 10 ~ 25°C.
 - Store the resins in the warehouse to protect from exposure to elevated temperature which is not to exceed 35°C.
 - Consume the resins on a first in, first out basis.

For additional sales, order and technical assistance

Revised :06/19/2017

Head office PO Division, LG Chem Ltd.

Yeoui-do P.O.Box 672, 21st floor LG Twin Tower,
Yeoui-daero 128, Yeongdeungpo-gu Seoul, Korea.
Tel. 82-2-3773-3028

TS&D

PO TECH Center. PO TS Team

188, Munji-ro, Yuseong-gu, Daejeon, 34122, Korea.
Tel. 82-42-722-5078

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products."