

Lucene™ LC175

Thermoplastic Polyolefin Elastomer

LG Chem Ltd.

Message:

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.

Application

General purpose thermoplastic elastomers, Polymer modification

Soft and hard TPO compounds

Feature

Improved impact strength in polypropylene

Excellent filler acceptance

Available as pellet form

Outstanding toughness with flexible performance

Reduction of product weight

General Information			
Features	Copolymer Good Flexibility Good Impact Resistance Good Toughness		
Uses	Compounding Plastics Modification		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.870	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	18	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	4.40	MPa	ASTM D638
Tensile Elongation ² (Break)	> 900	%	ASTM D638
Flexural Modulus - 1% Secant	12.0	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	34.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-51.0	°C	Internal Method
Melting Temperature (DSC)	42.0	°C	Internal Method
NOTE			

1.	510 mm/min
2.	510 mm/min
3.	Die C

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