

Lucene™ LC180

Thermoplastic Polyolefin Elastomer

LG Chem Ltd.

Message:

LC180 is an ethylene-octene 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.

Applications

General purpose thermoplastic elastomers, Polymer modification

Shoe sole, Wire & Cable

Performance

Improved impact strength and toughness

Outstanding clarity and high filler acceptance

Excellent compression set and tear strength

General Information			
Features	Copolymer		
	Good Tear Strength		
	High Clarity		
Uses	Footwear		
	Plastics Modification		
	Wire & Cable Applications		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density	0.885	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	20	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	28.0	MPa	ASTM D638
Tensile Elongation ² (Break)	> 800	%	ASTM D638
Flexural Modulus - 1% Secant	30.0	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ³	58.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-45.0	°C	Internal Method
Melting Temperature (DSC)	73.0	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		

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