

# ENGAGE™ 8137

Polyolefin Elastomer

The Dow Chemical Company

## Message:

ENGAGE™8137 polyolefin elastomer is an ethylene-octene copolymer with low density and high melt index. This combination of properties enables ENGAGE 8137 to have excellent toughness, flexibility and simple processing, and can be used as an efficient impact modifier in polyolefins or as a component in injection molding processing.

Main features:

pellets

low density

Excellent flow characteristics

Toughness, flexibility

Added talcum powder (untreated, 1 µm)

Application field:

injection molded industrial and consumer durable goods

Impact modification

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.864	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	4	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, molded	63		ASTM D2240
Shore D, 1 second, molded	13		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant <sup>1</sup> (Compression Molded)	1.80	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break, Compression Molded)	2.40	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: Molding	7.80	MPa	ASTM D790
2% secant: Molding	7.30	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>4</sup>	26.4	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-55.0	°C	Internal method
Melting Temperature (DSC) <sup>5</sup>	56.0	°C	Internal method
Peak Crystallization Temperature (DSC)	38.0	°C	Internal method
Additional Information			

对无滑石粉产品测量的属性.

NOTE

1.	510 mm/min
2.	510 mm/min
3.	510 mm/min
4.	C mould
5.	10°C/min

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