



# ENGAGE™ 7447

## Polyolefin Elastomer

### Overview

ENGAGE™ 7447 is a high ethylene butene melt flow, low density copolymer designed for use alone or in combination with our other elastomers to provide the tailored solutions in polymer modifications applications.

Main Characteristics:

- Pellet form
- Low Density
- Talc dusted (untreated, 1µm)

Applications:

- Polymer modification
- Blends

Complies with Government / Industry Standards:

- FDA FCN 368
- EU, No 10/2011

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.865 g/cm <sup>3</sup>	0.865 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 250°F (121°C))	7 MU	7 MU	ASTM D1646
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant <sup>1</sup> (Compression Molded)	247 psi	1.70 MPa	ASTM D638
Tensile Strength <sup>1</sup> (Break, Compression Molded)	348 psi	2.40 MPa	ASTM D638
Tensile Elongation <sup>1</sup> Break, Compression Molded	550 %	550 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	1130 psi	7.80 MPa	
2% Secant : Compression Molded	1100 psi	7.60 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength <sup>2</sup>	142 lbf/in	24.8 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	64	64	
Shore D, 1 sec, Compression Molded	12	12	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-63.4 °F	-53.0 °C	Dow Method
Melting Temperature (DSC) <sup>3</sup>	95.0 °F	35.0 °C	Dow Method
Peak Crystallization Temperature (DSC)	84.2 °F	29.0 °C	Dow Method

### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> 20 in/min (510 mm/min)

<sup>2</sup> Die C

<sup>3</sup> 10°C/min

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