

ENGAGE™ 7447

Polyolefin Elastomer

The Dow Chemical Company

Message:

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

General Information			
Agency Ratings	EU No 10/2011		
	FDA FCN 368		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.865	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	7	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	64		
Shore D, 1 sec, Compression Molded	12		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	1.70	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	2.40	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	550	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	7.80	MPa	
2% Secant : Compression Molded	7.60	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	24.8	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-53.0	°C	Internal Method

Melting Temperature (DSC) ⁵	35.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	29.0	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	Die C		
5.	10°C/min		

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