

ENGAGE™ 7387 EL

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 7387 EL Polyolefin Elastomer is a revolutionary butene copolymer with higher molecular weight, better toughness, and higher melt strength than other commercially available polyolefin elastomers. It is well suited for extruded applications such as Wire & Cable.

Main Characteristics:

Pellet form

High melt strength

Improved toughness

Talc dusted (untreated, 1 µm)

Applications:

Wire & Cable

Complies with:

EU, No 10/2011

Food Contact Substance Notification 000368

Consult regulations for complete details

General Information			
Uses	Blending		
	Compounding		
	Medium Voltage Insulation		
	Wire & Cable Applications		
Agency Ratings	EU No 10/2011		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.870	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 0.50	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	51	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	74		
Shore D, Compression Molded	22		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	2.60	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	5.20	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	500	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	10.9	MPa	
2% Secant : Compression Molded	11.3	MPa	

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	38.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-52.0	°C	Internal Method
Vicat Softening Temperature	47.0	°C	ASTM D1525
Melting Temperature (DSC) ⁵	51.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	37.0	°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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