

ENGAGE™ 7447 EL

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 7447 EL Polyolefin Elastomer is an ethylene butene copolymer with high melt index and low density designed for use in Wire & Cable compounds. The high melt index provides processability and the low density provides flexibility for a variety of Wire & Cable applications.

Main Characteristics:

Pellet form

Low Density

Talc dusted (untreated, 1µm)

Applications:

Polymer modification for Wire & Cable

Wire & Cable Blends

General Information			
Uses	Blending		
	Compounding		
	Wire & Cable Applications		
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, Compression Molded	64		
Shore D, 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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