ENGAGE™ HM 7487

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE[™] HM 7487 Polyolefin Elastomer is an ethylene-butene copolymer with higher molecular weight, better toughness, and higher melt strength than other commercially available polyolefin elastomers. It can serve as an extender for SEBS, impart lower gloss in hard TPOs, provide the basis for flexible soft-touch compounds, and is well suited for extruded applications such as wire and cable. ENGAGE HM 7487 is also useful for impact modification of various thermoplastic resins.

Main Characteristics: Pellet form High melt strength Improved toughness Talc dusted (untreated, 1 µm) Applications: Polymer modification Extender for SEBS Soft-touch compounds Reduced gloss TPOs Wire and cable Impact modification Complies with: U.S. FDA FCN 368 Consult the regulation for complete details.

Agency Ratings	FDA FCN 368		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.860	g/cm³	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)	47	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	58		
Shore D, 1 sec, Compression Molded	14		
Mechanical	Nominal Value	Unit	Test Method
1			
Tensile Strength '			ASTM D638
Tensile Strength ' Break, Compression Molded	2.40	MPa	ASTM D638
Tensile Strength ' Break, Compression Molded 100% Strain,Compression Molded	2.40	MPa MPa	ASTM D638
Tensile Strength ' Break, Compression Molded 100% Strain,Compression Molded Tensile Elongation ² (Break, Compression	2.40 1.50	MPa MPa	ASTM D638
Tensile Strength ' Break, Compression Molded 100% Strain,Compression Molded Tensile Elongation ² (Break, Compression Molded)	2.40 1.50 > 600	MPa MPa %	ASTM D638 ASTM D638
Tensile Strength ¹ Break, Compression Molded 100% Strain,Compression Molded Tensile Elongation ² (Break, Compression Molded) Flexural Modulus	2.40 1.50 > 600	MPa MPa %	ASTM D638 ASTM D638 ASTM D790
Tensile Strength ' Break, Compression Molded 100% Strain,Compression Molded Tensile Elongation ² (Break, Compression Molded) Flexural Modulus 1% Secant : Compression Molded	2.40 1.50 > 600 1.90	MPa MPa % MPa	ASTM D638 ASTM D638 ASTM D790
Tensile Strength ' Break, Compression Molded 100% Strain,Compression Molded Tensile Elongation ² (Break, Compression Molded) Flexural Modulus 1% Secant : Compression Molded 2% Secant : Compression Molded	2.40 1.50 > 600 1.90 1.20	MPa MPa % MPa MPa	ASTM D638 ASTM D638 ASTM D790
Tensile Strength ' Break, Compression Molded 100% Strain,Compression Molded Tensile Elongation ² (Break, Compression Molded) Flexural Modulus 1% Secant : Compression Molded 2% Secant : Compression Molded Elastomers	2.40 1.50 > 600 1.90 1.20 Nominal Value	MPa MPa % MPa MPa Unit	ASTM D638 ASTM D638 ASTM D790 Test Method
Tensile Strength 'Break, Compression Molded100% Strain,Compression MoldedTensile Elongation ² (Break, Compression Molded)Flexural Modulus1% Secant : Compression Molded2% Secant : Compression MoldedElastomersTear Strength ³	2.40 1.50 > 600 1.90 1.20 Nominal Value 28.0	MPa MPa % MPa MPa Unit	ASTM D638 ASTM D638 ASTM D790 Test Method ASTM D624

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-57.0	°C	Internal Method
Melting Temperature (DSC) ⁴	37.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	17.0	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	Die C		
4.	10°C/min		

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