ENGAGE™ HM 7387

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ HM 7387 Polyolefin Elastomer is an ethylene-butene copolymer that has 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 7387 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

General Information			
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.870	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)	54	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	66		
Shore D, Compression Molded	22		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	2.90	MPa	ASTM D638
Tensile Strength [2] (Break, Compression Molded)	9.10	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	810	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	12.2	MPa	
2% Secant : Compression Molded	11.5	MPa	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [4]	40.6	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-52.0	°C	Internal Method

Vicat Softening Temperature	46.0	°C	ASTM D1525
Melting Temperature (DSC) [5]	50.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	38.0	°C	Internal Method

NOTE	
1.	510 mm/min
2.	510 mm/min
3.	510 mm/min
4.	Die C
5.	10°C/min

Recommended distributors for this material

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