ENGAGE™ 8150

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8150 Polyolefin Elastomer is an ethylene-octene copolymer that has excellent flow characteristics and provides superb impact properties in blends with polypropylene (PP) and polyethylene (PE) and is widely used in TPO applications where excellent low temperature impact properties are desired.
ENGAGE 8150 provides high filler loading capability and outstanding peroxide cure capability. When cross-linked by peroxide, silane, or irradiation, it gives exceptional heat aging, compression set, and weather resistance properties and may be used to produce high performance electrical insulation.
Main Characteristics:
Pellet form
Excellent flow characteristics
Improved impact in polypropylene and polyethylene
High filler loading
Peroxide, silane, and radiation curable
Exceptional heat aging, compression set, and weather resistance when cured
Applications:
General purpose thermoplastic elastomers
Impact modification
Thermoplastic olefins (TPO)
Wire and cable

General Information			
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.868	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)	33	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	70		
Shore D, 1 sec, Compression Molded	20		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	2.60	MPa	ASTM D638
Tensile Strength [2] (Break, Compression Molded)	9.50	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	810	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	15.2	MPa	
2% Secant : Compression Molded	14.4	MPa	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [4]	37.3	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]	55.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	42.0	°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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