ENGAGE™ 8107

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™8107 polyolefin elastomer is an ethylene-octene copolymer with excellent flow properties and has a wide range of applications in general-purpose thermoplastic elastomers.
After blending with polypropylene (PP) and polyethylene (PE), ENGAGE 8107 has particularly excellent impact resistance. ENGAGE 8107 has high filler content and excellent peroxide curing performance. After being cured by peroxide, silane and irradiation, the product has excellent thermal aging properties, compression deformation and weather resistance, and may be used in the manufacture of high-performance electrical insulation products.
Main features:
pellets
Excellent flow characteristics
The impact resistance of polypropylene and polyethylene can be improved after addition
high filler addition
Peroxide, silane and irradiation can be used for curing
Excellent thermal aging performance, compression deformation and weather resistance after curing
Added talcum powder (untreated, 1 μm)
Application field:
general purpose thermoplastic elastomer
Wires and cables
Impact modification

General Information			
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.870	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	24	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 second, molded	73		ASTM D2240
Shore D, 1 second, molded	22		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	2.90	MPa	ASTM D638
Tensile Strength [2] (Break, Compression Molded)	9.76	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	810	%	ASTM D638
Flexural Modulus			ASTM D790
1% secant: Molding	14.3	MPa	ASTM D790
2% secant: Molding	13.1	MPa	ASTM D790
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [4]	40.0	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-52.0	°C	Internal method

Vicat Softening Temperature	45.0	°C	ASTM D1525
Melting Temperature (DSC) [5]	60.0	°C	Internal method
Peak Crystallization Temperature (DSC)	45.0	°C	Internal method

Additional Information
对无滑石粉产品测量的属性.

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

Recommended distributors for this material

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