ENGAGE™ 8200

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8200 Polyolefin Elastomer is an ethylene-octene copolymer that has excellent flow characteristics and performs well in a wide range of general purpose thermoplastic elastomer applications.
ENGAGE 8200 provides superb impact properties in blends with polypropylene (PP) and polyethylene (PE), especially in applications requiring slightly higher melt flow. ENGAGE 8200 also provides high filler loading capability, excellent electrical properties, and (when cross-linked) exceptional heat aging, compression set, and weather resistance properties.
Main Characteristics:
Pellet form
Excellent flow characteristics
High filler loading
Excellent electrical properties
Improved impact in polypropylene and polyethylene
Exceptional heat aging, compression set, and weather resistance when cured
Applications:
General purpose thermoplastic elastomers
Impact modification
Wire and cable

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)	5.0	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	8	MU	ASTM D1646
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	66		
Shore D, 1 sec, Compression Molded	17		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant [1] (Compression Molded)	2.30	MPa	ASTM D638
Tensile Strength [2] (Break, Compression Molded)	5.70	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	1100	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	10.9	MPa	
2% Secant : Compression Molded	10.8	MPa	
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength [4]	37.1	kN/m	ASTM D624
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-53.0	°C	Internal Method

Vicat Softening Temperature	37.0	°C	ASTM D1525
Melting Temperature (DSC) [5]	59.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	44.0	°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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China