

ENGAGE™ 8130

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8130 Polyolefin Elastomer is an ethylene-octene copolymer with low density and a high melt index. This combination provides excellent toughness, flexibility, and ease in processing and makes ENGAGE 8130 highly effective as an impact modifier in polyolefins or as a component in injection molding applications.

Main Characteristics:

Pellet form

Low density

Excellent flow characteristics

Toughness, flexibility

Applications:

Injection molded industrial and consumer durable goods

Impact modification

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.864	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	13	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	4	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	63		
Shore D, 1 sec, Compression Molded	13		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	1.80	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	2.40	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	800	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	7.80	MPa	
2% Secant : Compression Molded	7.30	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	26.4	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-55.0	°C	Internal Method
Melting Temperature (DSC) ⁵	56.0	°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

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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

