

# ENGAGE™ 8407

Polyolefin Elastomer  
The Dow Chemical Company

Message:

ENGAGE™8407 polyolefin elastomer is an ethylene-octene copolymer, which has excellent performance in the fields of injection molding of industrial and consumer durable goods and compression molding of gaskets.

ENGAGE 8407 endows products that need visual inspection with higher transparency, and can use hot runner molds for processing, which improves production efficiency. In addition, its lower density also helps to control resin costs and production costs, while also reducing the weight of the final product. After blending with polypropylene (PP) and polyethylene (PE), ENGAGE 8407 also has good impact resistance, especially suitable for application fields requiring high melt flow modification.

Main features:

- pellets
- Excellent flow characteristics

The impact resistance of polypropylene and polyethylene can be improved after addition

Added talcum powder (untreated, 1 μm)

Application field:

injection molded industrial and consumer durable goods

Impact modification

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.870	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	30	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	2	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 second, molded	72		ASTM D2240
Shore D, 1 second, molded	20		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Break, Compression Molded)	3.30	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, Compression Molded)	1000	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	12.1	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-54.0	°C	Internal method
Vicat Softening Temperature	41.0	°C	ASTM D1525
Melting Temperature (DSC) <sup>3</sup>	60.0	°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		

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#### 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

