

ENGAGE™ 8400

Polyolefin Elastomer
The Dow Chemical Company

Message:

ENGAGE™ 8400 Polyolefin Elastomer is an ethylene-octene copolymer that offers excellent performance in durable injection molded industrial and consumer goods and compression molded gaskets. ENGAGE 8400 provides high clarity in products requiring visual inspection and allows the use of hot runner molds to enhance production efficiency. In addition, the low density can help control resin and production costs, while reducing the weight of end products. ENGAGE 8400 also provides good impact properties in blends with polypropylene (PP) and polyethylene (PE), especially in applications requiring high melt flow modifiers.

- Main Characteristics:
- Pellet form
 - Excellent flow characteristics
 - Improved impact in polypropylene and polyethylene
- Applications:
- Injection molded industrial and consumer durable goods
 - Impact modification

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.870	g/cm ³	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 sec, Compression Molded	72		
Shore D, 1 sec, Compression Molded	20		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, Compression Molded)	3.30	MPa	ASTM D638
Tensile Elongation ² (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) ³	60.0	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	10°C/min		

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