



ENGAGE 8407

Polyolefin Elastomer

ENGAGE™ 8407 Polyolefin Elastomer is an ethylene-octene copolymer that offers excellent performance in durable injection molded industrial and consumer goods and compression molded gaskets.

ENGAGE 8407 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 8407 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
- Talc dusted (untreated, 1 µm)

Applications

- Injection molded industrial and consumer durable goods
- Impact modification

Properties⁽¹⁾

Typical Physical	Test Method	Value
Melt Index, 190°C/2.16 kg, dg/min	ASTM D 1238	30
Density, g/cm ³	ASTM D 792	0.870
Mooney Viscosity, ML 1 + 4 @ 121°C	ASTM D 1646	2
Typical Molded⁽²⁾		
Ultimate Tensile Strength, MPa	ASTM D 638 ⁽³⁾	2.8
Ultimate Tensile Elongation, %	ASTM D 638 ⁽³⁾	630
100% Modulus, MPa	ASTM D 638 ⁽³⁾	2.2
Hardness	ASTM D 2240	
Shore A		67
Shore D		14
Flexural Modulus, MPa	ASTM D 790	
1% Secant		10.9
2% Secant		10.5
Tear Strength, Type C, kN/m	ASTM D 624	29.8
Typical Thermal		
Vicat Softening Point, °C	ASTM D 1525	CNA
DSC Melting Point, 10°C/min rate, °C	Dow Method	65
Glass Transition Temperature, °C	Dow Method	-54
T _c Peak, °C	Dow Method	46

(1) These are typical properties only and are not to be regarded as sales specifications.

(2) Compression molded

(3) 508 mm/min

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