

ENGAGE™ 8207 Polyolefin Elastomer

Overview

ENGAGE™ 8207 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 8207 provides superb impact properties in blends with polypropylene (PP) and polyethylene (PE), especially in applications requiring slightly higher melt flow. ENGAGE 8207 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
- Talc dusted (untreated, 1 µm)

Applications:

- · General purpose thermoplastic elastomers
- · Impact modification
- · Wire and cable

Nominal Value	(English)	Nominal Value	(SI)	Test Method
0.870	g/cm³	0.870	g/cm³	ASTM D792
5.0	g/10 min	5.0	g/10 min	ASTM D1238
8	MU	8	MU	ASTM D1646
Nominal Value	(English)	Nominal Value	(SI)	Test Method
334	psi	2.30	MPa	ASTM D638
827	psi	5.70	MPa	ASTM D638
				ASTM D638
1100	%	1100	%	
				ASTM D790
1580	psi	10.9	MPa	
1570	psi	10.8	MPa	
Nominal Value	(English)	Nominal Value	(SI)	Test Method
212	lbf/in	37.1	kN/m	ASTM D624
Nominal Value	(English)	Nominal Value	(SI)	Test Method
				ASTM D2240
66		66		
17		17		
Nominal Value	(English)	Nominal Value	(SI)	Test Method
-63.4	°F	-53.0	°C	Dow Method
98.6	°F	37.0	°C	ASTM D1525
138	°F	59.0	°C	Dow Method
111	°F	44.0	°C	Dow Method
	0.870 5.0 8 Nominal Value 334 827 1100 1580 1570 Nominal Value 212 Nominal Value 66 17 Nominal Value -63.4 98.6 138		0.870 g/cm³ 0.870 5.0 g/10 min 5.0 8 MU 8 Nominal Value (English) Nominal Value 334 psi 2.30 827 psi 5.70 1100 % 1100 1580 psi 10.9 1570 psi 10.8 Nominal Value (English) Nominal Value 212 lbf/in 37.1 Nominal Value (English) Nominal Value 66 66 17 17 Nominal Value (English) Nominal Value -63.4 °F -53.0 98.6 °F 37.0 138 °F 59.0	0.870 g/cm³ 0.870 g/cm³ 5.0 g/10 min 5.0 g/10 min 8 MU 8 MU Nominal Value (English) Nominal Value (SI) 334 psi 2.30 MPa 827 psi 5.70 MPa 1100 % 1100 % 1580 psi 10.9 MPa 1570 psi 10.8 MPa Nominal Value (English) Nominal Value (SI) Nominal Value (SI) Si) Si)

Properties measured on product without talc dusting.

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Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

- ¹ 20 in/min (510 mm/min)
- ² Die C
- ³ 10°C/min

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