

ENGAGE™ 8842 **Polyolefin Elastomer**

Overview

ENGAGE™ 8842 Polyolefin Elastomer is an ultra-low density ethylene-octene copolymer which offers exceptional properties of an ultra-low density elastomer with the added potential of handling this polymer in pellet form.

ENGAGE 8842 has excellent flow characteristics and provides superb impact properties in blends with polypropylene (PP) and polyethylene (PE). It performs well in TPO applications where superior low temperature impact properties are desired.

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 of TPO

Nominal Value	(English)	Nominal Value	(SI)	Test Method
0.857	g/cm³	0.857	g/cm³	ASTM D792
1.0	g/10 min	1.0	g/10 min	ASTM D1238
25	MU	25	MU	ASTM D1646
Nominal Value	(English)	Nominal Value	(SI)	Test Method
203	psi	1.40	MPa	ASTM D638
435	psi	3.00	MPa	ASTM D638
				ASTM D638
1200	%	1200	%	
				ASTM D790
653	psi	4.50	MPa	
580	psi	4.00	MPa	
Nominal Value	(English)	Nominal Value	(SI)	Test Method
145	lbf/in	25.4	kN/m	ASTM D624
Nominal Value	(English)	Nominal Value	(SI)	Test Method
				ASTM D2240
54		54		
11		11		
Nominal Value	(English)	Nominal Value	(SI)	Test Method
-72.4	°F	-58.0	°C	Dow Method
100	°F	38.0	°C	Dow Method
68.0	°F	20.0	°C	Dow Method
	0.857 1.0 25 Nominal Value 203 435 1200 653 580 Nominal Value 145 Nominal Value 54 11 Nominal Value -72.4 100	0.857 g/cm³ 1.0 g/10 min 25 MU Nominal Value (English) 203 psi 435 psi 1200 % 653 psi 580 psi Nominal Value (English) 145 lbf/in Nominal Value (English)	0.857 g/cm³ 0.857 1.0 g/10 min 1.0 25 MU 25 Nominal Value (English) Nominal Value 203 psi 1.40 435 psi 3.00 1200 % 1200 653 psi 4.50 580 psi 4.00 Nominal Value (English) Nominal Value 145 lbf/in 25.4 Nominal Value (English) Nominal Value 54 54 11 11 Nominal Value (English) Nominal Value -72.4 °F -58.0 100 °F 38.0	0.857 g/cm³ 0.857 g/cm³ 1.0 g/10 min 1.0 g/10 min 25 MU 25 MU Nominal Value (English) Nominal Value (SI) 203 psi 1.40 MPa 435 psi 3.00 MPa 1200 % 1200 % 653 psi 4.50 MPa 580 psi 4.00 MPa Nominal Value (English) Nominal Value (SI) 145 Ibf/in 25.4 kN/m Nominal Value (English) Nominal Value (SI) 54 54 11 11 Nominal Value (English) Nominal Value (SI) -72.4 °F -58.0 °C 100 °F 38.0 °C

Notes

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

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¹ 20 in/min (510 mm/min)

² Die C

^{3 10°}C/min

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