# ENGAGE<sup>™</sup> 8540G

### Polyolefin Elastomer

#### The Dow Chemical Company

#### Message:

ENGAGE™ 8540G Polyolefin Elastomer is an ethylene-octene copolymer that is well suited to foamed applications and offers excellent performance for profile extrusion of tubing and hoses. It has good clarity, toughness, and flexibility. ENGAGE 8540G also has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion. Main Characteristics: Pellet form Good clarity, toughness, and flexibility Excellent compatibility with polyolefins Complies with: EU, No 10/2011 Japan Hygienic Olefin and Styrene Plastics Association U.S. FDA FCN 424 Applications: Blends Foams Coextrusion Profile extrusion and tubing

#### General Information

Agency Ratings

EU No 10/2011

FDA FCN 424

JHOSPA Unspecified Rating

Pellets		
Nominal Value	Unit	Test Method
0.908	g/cm³	ASTM D792
1.0	g/10 min	ASTM D1238
20	MU	ASTM D1646
Nominal Value	Unit	Test Method
		ASTM D2240
90		
47		
Nominal Value	Unit	Test Method
9.60	MPa	ASTM D638
27.9	MPa	ASTM D638
750	%	ASTM D638
		ASTM D790
114	MPa	
108	МРа	
	Pellets   Nominal Value   0.908   1.0   20   Nominal Value   90   47   Nominal Value   90   47   70   9.60   27.9   750   114   108	Pellets Unit   Nominal Value g/cm³   1.0 g/10 min   20 MU   Nominal Value Unit   90 -   47 -   90 -   47 -   90 -   27.9 MPa   27.9 MPa   114 MPa   108 MPa

Elastomers	Nominal Value	Unit	Test Method
Tear Strength <sup>4</sup>	103	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-32.0	°C	Internal Method
Vicat Softening Temperature	97.0	°C	ASTM D1525
Melting Temperature (DSC) <sup>5</sup>	104	°C	Internal Method
Peak Crystallization Temperature (DSC)	90.0	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		
4.	Die C		
5.	10°C/min		

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