

ENGAGE™ 8540

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8540 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 8540 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		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 121°C)	20	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	90		
Shore D, 1 sec, Compression Molded	47		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	9.60	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	27.9	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	750	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	114	MPa	
2% Secant : Compression Molded	108	MPa	

Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	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) ⁵	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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