

ENGAGE™ 8480

Polyolefin Elastomer

The Dow Chemical Company

Message:

ENGAGE™ 8480 Polyolefin Elastomer is an ethylene-octene copolymer that offers excellent performance in footwear applications and profile extrusion of tubing and hoses. It has good clarity, toughness, and flexibility.

ENGAGE 8480 also has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion.

Main Characteristics:

Pellet form

Good clarity, toughness, and flexibility

Applications:

Footwear

Cross-linked foams

Blends

Profile extrusion tubing and hoses

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	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	89		
Shore D, 1 sec, Compression Molded	42		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	8.00	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	24.8	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	660	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	83.1	MPa	
2% Secant : Compression Molded	81.5	MPa	
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ⁴	91.2	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-31.0	°C	Internal Method
Vicat Softening Temperature	89.0	°C	ASTM D1525
Melting Temperature (DSC) ⁵	99.0	°C	Internal Method
Peak Crystallization Temperature (DSC)	84.0	°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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