



ENGAGE 8480

Polyolefin Elastomer

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

Properties⁽¹⁾

Typical Physical	Test Method	Value
Melt Index, 190°C/2.16 kg, dg/min	ASTM D 1238	1.0
Density, g/cm ³	ASTM D 792	0.902
Mooney Viscosity, ML 1 + 4 @ 121°C	ASTM D 1646	20
Typical Molded⁽²⁾		
Ultimate Tensile Strength, MPa	ASTM D 638 ⁽³⁾	24.8
Ultimate Tensile Elongation, %	ASTM D 638 ⁽³⁾	660
100% Modulus, MPa	ASTM D 638 ⁽³⁾	8.0
Hardness	ASTM D 2240	
Shore A		89
Shore D		42
Flexural Modulus, MPa	ASTM D 790	
1% Secant		83.1
2% Secant		81.5
Tear Strength, Type C, kN/m	ASTM D 624	91.2
Typical Thermal		
Vicat Softening Point, °C	ASTM D 1525	89
DSC Melting Point, 10°C/min rate, °C	Dow Method	99
Glass Transition Temperature, °C	Dow Method	-31
Tc Peak, °C	Dow Method	84

(1) These are typical properties only and are not to be regarded as sales specifications.

(2) Compression molded

(3) 508 mm/min

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Additional Information

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