

ENGAGE 8452

Polyolefin Elastomer

ENGAGE™ 8452 Polyolefin Elastomer is an ethylene-octene copolymer that offers excellent toughness, softness, and optical properties. It has excellent compatibility with other polyolefins, allowing for efficient blending and coextrusion.

ENGAGE 8452 provides excellent flow properties and is efficiently cross-linked by peroxide, silane, or irradiation. When cross-linked, it gives exceptional heat aging, compression set, and weather resistance properties.

Main Characteristics:

- Pellet form Good clarity, toughness, and flexibility
- Excellent compatibility with polyolefins
- Exceptional heat aging, compression set, and weather resistance when cured

Applications:

- Blends

Properties ⁽¹⁾

Typical Physical

	Test Method	Value
Melt Index, 190°C/2.16 kg, dg/min	ASTM D 1238	3.0
Density, g/cm ³	ASTM D 792	0.875
Mooney Viscosity, ML 1 + 4 @ 121°C	ASTM D 1646	11

Typical Molded ⁽²⁾

Ultimate Tensile Strength, MPa	ASTM D 638 ⁽³⁾	6.5
Ultimate Tensile Elongation, %	ASTM D 638 ⁽³⁾	560
100% Modulus, MPa	ASTM D 638 ⁽³⁾	3.0
Hardness	ASTM D 2240	
Shore A		74
Shore D		24
Flexural Modulus, MPa	ASTM D 790	
1% Secant		16.5
2% Secant		16.8
Tear Strength, Type C, kN/m	ASTM D 624	45.1
Typical Thermal		
Vicat Softening Point, °C	ASTM D 1525	48
DSC Melting Point, 10°C/min rate, °C	Dow Method	66
Glass Transition Temperature, °C	Dow Method	-51
T _c Peak, °C	Dow Method	48

(3) 508 mm/min

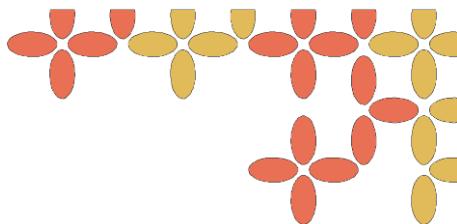
Oficina

Av. Neptuno No.33
 Col. Arcos de la Hacienda. Cuautitlán Izcalli, EdoMex. C.P. 54730
 Telefonos: 52- 555896-4534 / 555889-4446 / 555889-4422
www.ameripolchemical.com
 E-mail: direccion@ameripolchemical.com.mx

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A.V uno norte No.15
 Bodega 1C Parque industrial Cartagena
 Tultitlán Edo. De Mexico
 C.P. 54934 Tel. 58882286





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- b. use in cardiac prosthetic devices regardless of the length of time involved; (Cardiac prosthetic devices include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices);
- c. use as a critical component in medical devices that support or sustain human life; or
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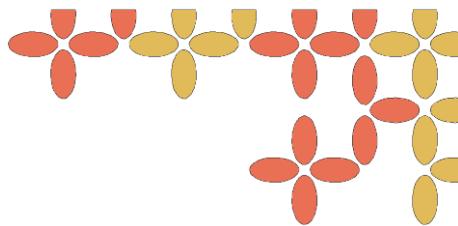
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