



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

Melt Index, 190°C/2.16 kg, dg/min
Density, g/cm³
Mooney Viscosity,
ML 1 + 4 @ 121°C

Test Method

ASTM D 1238
ASTM D 792

Value

3.0
0.875

ASTM D 1646

11

Typical Molded ⁽²⁾

Ultimate Tensile Strength, MPa
Ultimate Tensile Elongation, %
100% Modulus, MPa
Hardness

ASTM D 638 ⁽³⁾
ASTM D 638 ⁽³⁾
ASTM D 638 ⁽³⁾
ASTM D 2240

6.5
560
3.0

Shore A
Shore D

74
24

Flexural Modulus, MPa

ASTM D 790

1% Secant
2% Secant

16.5
16.8

Tear Strength, Type C, kN/m

ASTM D 624

45.1

Typical Thermal

Vicat Softening Point, °C
DSC Melting Point,
10°C/min rate, °C
Glass Transition Temperature, °C
Tc Peak, °C

ASTM D 1525
Dow Method
Dow Method
Dow Method

48
66
-51
48

(3) 508 mm/min

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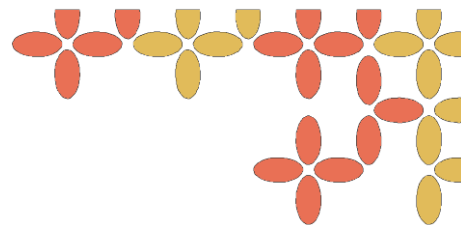
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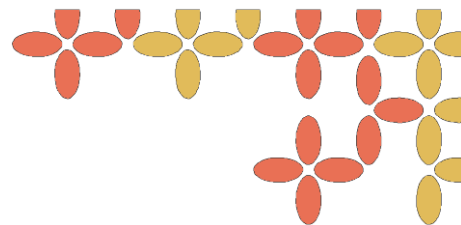
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