



ENGAGE™ 7270 Polyolefin Elastomer

Overview ENGAGE™ 7270 Polyolefin Elastomer is a general-purpose copolymer designed to provide good cost/performance balance in polymer modification applications.

Main Characteristics:

- Pellet form

Applications:

- Polymer modification

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.880 g/cm ³	0.880 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	0.80 g/10 min	0.80 g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 250°F (121°C))	24 MU	24 MU	ASTM D1646
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	537 psi	3.70 MPa	ASTM D638
Tensile Strength ¹ (Break, Compression Molded)	2020 psi	13.9 MPa	ASTM D638
Tensile Elongation ¹ Break, Compression Molded	720 %	720 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	3260 psi	22.5 MPa	
2% Secant : Compression Molded	3210 psi	22.1 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength ²	302 lbf/in	52.9 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Compression Molded	80	80	
Shore D, 1 sec, Compression Molded	26	26	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-47.2 °F	-44.0 °C	Dow Method
Vicat Softening Temperature	122 °F	50.0 °C	ASTM D1525
Melting Temperature (DSC) ³	147 °F	64.0 °C	Dow Method
Peak Crystallization Temperature (DSC)	122 °F	50.0 °C	Dow Method

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 20 in/min (510 mm/min)

² Die C

³ 10°C/min

