



Developmental ENR 7256.00 Polyolefin Elastomer

Overview ENR™ 7256.00 Ethylene-Butene Copolymer is a unique broader molecular weight distribution copolymer with higher branching levels that offers excellent clarity, processing, and performance in foams and extrusion applications such as tubing, profiles, and wire and cable insulations.

Main Characteristics:

- Pellet form
- Broad molecular weight distribution
- Excellent clarity and processability
- High branching levels

Applications:

- Cross-linked foams
- Extrusion - Tubing, Profiles
- Wire and Cable

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.885 g/cm ³	0.885 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238
Mooney Viscosity (ML 1+4, 250°F (121°C))	13 MU	13 MU	ASTM D1646
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638 ¹
Break, Compression Molded	1620 psi	11.2 MPa	
100% Strain, Compression Molded	566 psi	3.90 MPa	
Tensile Elongation			ASTM D638 ¹
Break, Compression Molded	850 %	850 %	
Flexural Modulus			ASTM D790
1% Secant: Compression Molded	4000 psi	27.6 MPa	
2% Secant: Compression Molded	3950 psi	27.2 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength	321 lbf/in	56.2 kN/m	ASTM D624 ²
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	82	82	
Shore D, Compression Molded	28	28	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature (DSC)	-49.0 °F	-45.0 °C	Dow Method
Vicat Softening Temperature	126 °F	52.0 °C	ASTM D1525
Melting Temperature (DSC)	167 °F	75.0 °C	Dow Method ³
Peak Crystallization Temperature (DSC)	138 °F	59.0 °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

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