



DOW™ 39001 Specialty Ethylene Copolymer

Overview SEC 39001 Specialty Ethylene Copolymer is an ethylene butene copolymer, offers excellent processing and performance in various applications such as footwear and wire & cable.

Main Characteristics:

- Pellet form
- Excellent processability

Applications:

- Foam application
- Halogen free flame retardance (HFFR) compound

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.890 g/cm ³	0.890 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	4.5 g/10 min	4.5 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant ¹	615 psi	4.24 MPa	ASTM D638
Tensile Strength ² (Ultimate)	1890 psi	13.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	> 600 %	> 600 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : Compression Molded	4780 psi	33.0 MPa	
2% Secant : Compression Molded	4930 psi	34.0 MPa	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength ³	365 lbf/in	64.0 kN/m	ASTM D624
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	87	87	
Shore D, Compression Molded	36	36	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Transition Temperature	-41.8 °F	-41.0 °C	Dow Method
Vicat Softening Temperature	136 °F	58.0 °C	ASTM D1525
Melting Temperature (DSC) ⁴	176 °F	80.0 °C	Dow Method
Peak Crystallization Temperature	149 °F	65 °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.

¹ 508 mm/min

² Compression Molded.
508 mm/min

³ Die C

⁴ 10°C/min

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