



INFUSE™ 9100

Olefin Block Copolymer

Overview INFUSE™ 9100 Olefin Block Copolymer is a high performance developmental olefin block copolymer that can be widely used in thermoplastic elastomer applications where higher service temperature requirements are needed. INFUSE 9100 exhibits very good processability in various extrusion processes. INFUSE 9100 also provides high filler loading capability along with low compression set over a wide temperature range.

Main Characteristics

- High upper service temperature performance
- Highly flexible with good elastic recovery
- Fast set up times for processability
- General purpose elastomer
- Excellent for compounds and blends

Complies with

- Europe EU-Directive 2002/72/EC
- U.S. FDA FCN 424 Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.877 g/cm ³	0.877 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	404 psi	2.79 MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	957 psi	6.60 MPa	ASTM D638
Tensile Elongation			ASTM D638
Break, Compression Molded	480 %	480 %	
Flexural Modulus - 2% Secant (Compression Molded)	2770 psi	19.1 MPa	ASTM D790
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	1890 psi	13.0 MPa	ASTM D412
Tensile Elongation (Break)	1300 %	1300 %	ASTM D412
Tear Strength	228 lbf/in	40.0 kN/m	ASTM D624
Compression Set			ASTM D395
70°F (21°C)	19 %	19 %	
158°F (70°C)	47 %	47 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	75	75	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC)	248 °F	120 °C	Dow Method
TMA (0.0394 in (1.00 mm), 1N, 5°C/min)	114 °F	46 °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.

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