



# INFUSE™ 9107

## Olefin Block Copolymer

**Overview** INFUSE™ 9107 Olefin Block Copolymer is a lower density higher performance developmental olefin copolymer that can be widely used in TPE applications where higher service temperature requirements are needed. INFUSE 9107 also provides high filler loading capability and gives good elastic recovery.

**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
- Talc dusted

**Complies with:**

- Europe EU-Directive 2002/72/EC
- U.S. FDA FCN 424

Consult the regulations for complete details.

<b>Physical</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>	<b>Test Method</b>
Density	0.866 g/cm <sup>3</sup>	0.866 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
<b>Mechanical</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>	<b>Test Method</b>
Tensile Modulus - 100% Secant (Compression Molded)	234 psi	1.61 MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	739 psi	5.10 MPa	ASTM D638
Tensile Elongation Break, Compression Molded	600 %	600 %	ASTM D638
<b>Elastomers</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>	<b>Test Method</b>
Tensile Strength (Break)	1600 psi	11.0 MPa	ASTM D412
Tensile Elongation (Break)	1600 %	1600 %	ASTM D412
Tear Strength	154 lbf/in	27.0 kN/m	ASTM D624
Compression Set			ASTM D395
70°F (21°C)	10 %	10 %	
158°F (70°C)	49 %	49 %	
<b>Hardness</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>	<b>Test Method</b>
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	60	60	
<b>Thermal</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>	<b>Test Method</b>
Melting Temperature (DSC)	250 °F	121 °C	Dow Method
TMA (0.0394 in (1.00 mm), 1N, 5°C/min)	66 °F	19 °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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Published: 2008-08-12

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