



INFUSE™ 9807

Olefin Block Copolymer

Overview

INFUSE™ 9807 is a high performance olefin block copolymer that offers excellent performance in durable, flexible injection molded industrial and consumer goods. INFUSE 9807 has a higher set up temperature, which allows for faster injection molding cycle times. In addition, its high crystallization temperature and lower density drive lower production costs by reducing cycle time and reducing part weight.

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:

- EU, No 10/2011
- U.S. FDA FCN 424

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.866 g/cm ³	0.866 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	15 g/10 min	15 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	189 psi	1.30 MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	176 psi	1.21 MPa	ASTM D638
Tensile Elongation			ASTM D638
Break, Compression Molded	1200 %	1200 %	
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	435 psi	3.00 MPa	ASTM D412
Tensile Elongation (Break)	2200 %	2200 %	ASTM D412
Tear Strength	97.1 lbf/in	17.0 kN/m	ASTM D624
Compression Set			ASTM D395
70°F (21°C)	16 %	16 %	
158°F (70°C)	76 %	76 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	55	55	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Melting Temperature (DSC)	244 °F	118 °C	Dow Method
TMA ¹ (39.4 mil (1.00 mm))	140 °F	60 °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 1N, 5°C/min

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