



INFUSE™ 9807

The Dow Chemical Company - Olefin Block Copolymer

Monday, November 4, 2019

General Information

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA FCN 424	
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.868		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	189	psi	ASTM D638
Tensile Strength (Break, Compression Molded)	176	psi	ASTM D638
Tensile Elongation (Break, Compression Molded)	1200	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	435	psi	ASTM D412
Tensile Elongation (Break)	2200	%	ASTM D412
Tear Strength	97.1	lbf/in	ASTM D624
Compression Set			ASTM D395
70°F	16	%	
158°F	76	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	55		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	244	°F	Internal Method

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Thermal	Nominal Value	Unit	Test Method
TMA ² (39.4 mil)	140	°F	Internal Method

Notes

¹ Typical properties: these are not to be construed as specifications.

² 1N, 5°C/min