

INFUSE™ 9807

Olefin Block Copolymer

The Dow Chemical Company

Message:

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 Information			
Agency Ratings	EU No 10/2011		
	FDA FCN 424		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.866	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	1.30	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	1.21	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1200	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	3.00	MPa	ASTM D412
Tensile Elongation (Break)	2200	%	ASTM D412
Tear Strength	17.0	kN/m	ASTM D624
Compression Set			ASTM D395
21°C	16	%	
70°C	76	%	
Thermal	Nominal Value	Unit	Test Method

Melting Temperature (DSC)	118	°C	Internal Method
TMA ¹ (1.00 mm)	60	°C	Internal Method
NOTE			
1.	1N, 5°C/min		

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