



INFUSE™ 9100

The Dow Chemical Company - Olefin Block Copolymer

Monday, November 4, 2019

General Information

Product Description

INFUSE™ 9100 Olefin Block Copolymer is a high performance 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

- EU, No 10/2011
- U.S. FDA FCN 424 Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • 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	0.879		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	404	psi	ASTM D638
Tensile Strength (Break, Compression Molded)	957	psi	ASTM D638
Tensile Elongation (Break, Compression Molded)	480	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	2770	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1890	psi	ASTM D412
Tensile Elongation (Break)	1300	%	ASTM D412
Tear Strength	228	lbf/in	ASTM D624
Compression Set			ASTM D395
70°F	19	%	
158°F	47	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	75		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	248	°F	Internal Method
TMA ² (39.4 mil)	237	°F	Internal Method

INFUSE™ 9100

The Dow Chemical Company - Olefin Block Copolymer

Notes

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

² 1N, 5°C/min