

# INFUSE™ 9100

Olefin Block Copolymer

The Dow Chemical Company

## Message:

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 Information			
Agency Ratings	EU No 10/2011		
	FDA FCN 424		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.877	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	75		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	2.79	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	6.60	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	480	%	ASTM D638
Flexural Modulus - 2% Secant (Compression Molded)	19.1	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	13.0	MPa	ASTM D412
Tensile Elongation (Break)	1300	%	ASTM D412
Tear Strength	40.0	kN/m	ASTM D624
Compression Set			ASTM D395
21°C	19	%	
70°C	47	%	
Thermal	Nominal Value	Unit	Test Method

Melting Temperature (DSC)	120	°C	Internal Method
TMA <sup>1</sup> (1.00 mm)	114	°C	Internal Method
NOTE			
1.	1N, 5°C/min		

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