INFUSE™ 9000

The Dow Chemical Company - Olefin Block Copolymer

Monday, November 4, 2019

General Information

Product Description

INFUSE™ 9000 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 9000 also provides high filler loading capability along with low compression set and good processability.

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)	0.50	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus - 100% Secant (Compression Molded)	477	psi	ASTM D638
Tensile Strength (Break, Compression Molded)	911	psi	ASTM D638
Tensile Elongation (Break, Compression Molded)	370	%	ASTM D638
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	2180	psi	ASTM D412
Tensile Elongation (Break)	1200	%	ASTM D412
Tear Strength	240	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F	23	%	
158°F	45	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, Compression Molded)	71		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature (DSC)	248	°F	Internal Method
TMA [2] (39.4 mil)	219	°F	Internal Method

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Notes

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

[2] 1N, 5°C/min