



INFUSE™ 9500

The Dow Chemical Company - Olefin Block Copolymer

Monday, November 4, 2019

General Information

Product Description

INFUSE™ 9500 Olefin Block Copolymer is a olefin copolymer that has excellent flow characteristics and performs well in a wide range of general purpose thermoplastic elastomer applications, such as injection molding and profile extrusion. INFUSE 9500 provides outstanding haptics in over molding applications with polypropylene (PP) and Polyethylene (PE). 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

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	0.879		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	331	psi	ASTM D638
Tensile Strength (Break, Compression Molded)	723	psi	ASTM D638
Tensile Elongation (Break, Compression Molded)	1200	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1380	psi	ASTM D412
Tensile Elongation (Break)	1600	%	ASTM D412
Tear Strength	200	lbf/in	ASTM D624
Compression Set			ASTM D395
70°F	22	%	
158°F ²	55	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	69		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	251	°F	Internal Method

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Thermal	Nominal Value	Unit	Test Method
TMA ³ (1.0 in)	207	°F	Internal Method

Notes

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

² 5°C/min

³ 1N, 5°C/min