Technical Information

INFUSE™ 9000
Olefin Block Copolymer

Overview

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.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.877	g/cm³	0.877	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.50	g/10 min	0.50	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus - 100% Secant (Compression Molded)	477	psi	3.29	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	911	psi	6.28	MPa	ASTM D638
Tensile Elongation					ASTM D638
Break, Compression Molded	370	%	370	%	
Elastomers	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Break)	2180	psi	15.0	MPa	ASTM D412
Tensile Elongation (Break)	1200	%	1200	%	ASTM D412
Tear Strength	240	lbf/in	42.0	kN/m	ASTM D624
Compression Set					ASTM D395
73°F (23°C)	23	%	23	%	
158°F (70°C)	45	%	45	%	
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness					ASTM D2240
Shore A, Compression Molded	71		71		
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Melting Temperature (DSC)	248	°F	120	°C	Dow Method
TMA [1] (39.4 mil (1.00 mm))	219	°F	104	°C	Dow Method

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] 1N, 5°C/min

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