INFUSE™ 9107
Olefin Block Copolymer

Overview

INFUSE™ 9107 Olefin Block Copolymer is a lower density higher performance olefin copolymer that can be widely used in TPE applications where higher service temperature requirements are needed. INFUSE 9107 also provides high filler loading capability and gives good elastic recovery.

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
- Talc dusted

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	0.866	g/cm³	0.866	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus - 100% Secant (Compression Molded)	234	psi	1.61	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	739	psi	5.10	MPa	ASTM D638
Tensile Elongation					ASTM D638
Break, Compression Molded	600	%	600	%	
Elastomers	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Break)	1600	psi	11.0	MPa	ASTM D412
Tensile Elongation (Break)	1600	%	1600	%	ASTM D412
Tear Strength	154	lbf/in	27.0	kN/m	ASTM D624
Compression Set					ASTM D395
70°F (21°C)	16	%	16	%	
158°F (70°C)	49	%	49	%	
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness					ASTM D2240
Shore A, Compression Molded	60		60		
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Melting Temperature (DSC)	250	°F	121	°C	Dow Method
TMA [1] (39.4 mil (1.00 mm))	151	°F	66	°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

Form No. 400-00119894en
Rev: 2011-09-14

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Published: 2008-08-12

Form No. 400-00119894en
Rev: 2011-09-14