INFUSE™ 9007
Olefin Block Copolymer

Overview

INFUSE™ 9007 Olefin Block Copolymer is a lower density higher performance developmental olefin block copolymer that can be widely used in TPE applications where higher service temperature requirements are needed. INFUSE 9007 also provides high filler loading capability and gives good elastic recovery.

Main Characteristics:
- High upper service temperature performance
- Highly flexible with good elastic recovery
- General purpose elastomer
- Excellent for compounds and blends
- Talc dusted

Complies with
- Europe EU-Directive 2002/72/EC
- U.S. FDA FCN 424

Consult the regulations for complete details.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.864 g/cm³	0.864 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)	258 psi	1.78 MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	590 psi	4.07 MPa	ASTM D638
Tensile Elongation			ASTM D638
Break, Compression Molded	400 %	400 %	
Elastomers	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Break)	1410 psi	9.70 MPa	ASTM D412
Tensile Elongation (Break)	1300 %	1300 %	ASTM D412
Tear Strength	166 lbf/in	29.0 kN/m	ASTM D624
Compression Set			ASTM D395
70°F (21°C)	18 %	18 %	
158°F (70°C)	57 %	57 %	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, Compression Molded	64	64	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Melting Temperature (DSC)	246 °F	119 °C	Dow Method
TMA (0.0394 in (1.00 mm), 1N, 5°C/min)	88 °F	31 °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.

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