Technical Information

INFUSE™ 9817
Olefin Block Copolymer

Overview

INFUSE™ 9817 Olefin Block Copolymer is a high performance olefin block copolymer that offers excellent performance in durable, flexible injection molded industrial and consumer goods. INFUSE 9817 has a higher set up temperature, which allows for faster injection molding cycle times. In addition, its high crystallization temperature and lower density drive to lower production cost by reducing cycle time and reducing part weight.

Main Characteristics:

- High upper service temperature performance
- Highly flexible with good elastic recovery
- General purpose elastomer
- Excellent for compounds and blends
- Reduced part weight
- 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	0.877	g/cm³	0.877	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	15	g/10 min	15	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus - 100% Secant (Compression Molded)	335	psi	2.31	MPa	ASTM D638
Tensile Strength (Break, Compression Molded)	1020	psi	7.00	MPa	ASTM D638
Tensile Elongation					ASTM D638
Break, Compression Molded	1500	%	1500	%	
Elastomers	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Break)	1020	psi	7.00	MPa	ASTM D412
Tensile Elongation (Break)	1700	%	1700	%	ASTM D412
Tear Strength	177	lbf/in	31.0	kN/m	ASTM D624
Compression Set					ASTM D395
70°F (21°C)	15	%	15	%	
158°F (70°C)	58	%	58	%	
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))	203	°F	95	°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