



INFUSE™ 9077

The Dow Chemical Company - Olefin Block Copolymer

Monday, November 4, 2019

General Information

Product Description

INFUSE™ 9077 is a high performance olefin block copolymer that can be compounded with a variety of polyolefins to make a thermoplastic elastomer suitable for XL foams and other applications

This product is delivered with a nominal talc partitioning agent to assist in material handling.

Main Characteristics

- Highly flexible
- Crosslinkable for foam applications

Applications

- Compounding to make soft XL foams

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • Latin America • North America
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.871		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant (Compression Molded)	175	psi	ASTM D638
Tensile Strength (Break, Compression Molded)	435	psi	ASTM D638
Tensile Elongation (Break, Compression Molded)	> 1000	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tear Strength ²	150	lbf/in	ASTM D624
Compression Set			ASTM D395
73°F	20	%	
158°F	43	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	51		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-85.0	°F	Internal Method
Melting Temperature (DSC)	244	°F	Internal Method
TMA	226	°F	Internal Method

Notes

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

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