

INFUSE™ 9010

Olefin Block Copolymer

The Dow Chemical Company

Message:

INFUSE 9010 Olefin Block Copolymer is a low tack, high tensile strength olefin elastomer for formulating soft compounds. It is readily compounded with a variety of other materials to make simple to complex blends. Its versatility makes it useful for providing solutions a range of soft applications, from grips to toys and beyond.

Main Characteristics:

Excellent for compounds and blends

Low tack product

High upper service temperature performance

Highly flexible with good elastic recovery

General purpose elastomer

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.877	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, Compression Molded)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 100% Secant ¹ (Compression Molded)	3.40	MPa	ASTM D638
Tensile Strength ² (Break, Compression Molded)	13.2	MPa	ASTM D638
Tensile Elongation ³ (Break, Compression Molded)	> 750	%	ASTM D638
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ⁴ (Break)	14.5	MPa	ASTM D412
Tensile Elongation ⁵ (Break)	770	%	ASTM D412
Tear Strength	47.8	kN/m	ASTM D624
Compression Set			ASTM D395
21°C	24	%	
70°C	67	%	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	122	°C	Internal Method
TMA ⁶ (1.00 mm)	121	°C	Internal Method
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	510 mm/min		

4.	Die C
5.	Die C
6.	1N, 5°C/min

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