

# VECTOR® 4186A

Styrene Isoprene Branched Copolymer

Dexco Polymers LP

## Message:

VECTOR 4186A

Styrene-Isoprene (SI)n Block Copolymer

Radial (SI)n(1) block copolymer.

High molecular weight copolymer.

Contains ~73% SI diblock copolymer.

Supplied as a dense pellet, dusted with talc.

VECTOR styrenic block copolymers find use under certain regulations as articles or as ingredients in articles intended for food contact or medical applications. Please contact your Dexco Polymers agent for a detailed letter of certification or further information.

VECTOR 4186A styrene-isoprene radial copolymer is produced via proprietary anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture. It is not formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).

It is made with a patented coupling process that yields a polymer primarily with a 4-arm radial architecture. It is particularly suited for low-viscosity hot melt pressure sensitive adhesive systems having excellent adhesion to low energy surfaces, low migration characteristics, and enhanced die-cutting characteristics within label stock applications.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Adhesion		
	High Molecular Weight		
	Low Viscosity		
Uses	Adhesives		
	Labels		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.928	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.3	g/10 min	ASTM D1238
Ash Content	0.6	wt%	ASTM D1416
Styrene Content	18.0	wt%	Internal Method
Diblock Content	73.0	wt%	Internal Method
Volatiles	0.3	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	46		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Flow <sup>1</sup> (300% Strain)	0.689	MPa	ASTM D412
Tensile Strength - Flow <sup>2</sup> (Yield)	2.76	MPa	ASTM D412
Tensile Elongation - Flow <sup>3</sup> (Break)	1500	%	ASTM D412
NOTE			

1.	Tested on roll milled/compression molded plaques (0.035" thick). Tested in the machine direction.
2.	Tested on roll milled/compression molded plaques (0.035" thick). Tested in the machine direction.
3.	Tested on roll milled/compression molded plaques (0.035" thick). Tested in the machine direction.

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#### Recommended distributors for this material

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