VECTOR® 4293A

Styrene Isoprene Branched Copolymer Dexco Polymers LP

Message:

VECTOR 4293A

Styrene-Isoprene (SI)n Block Copolymer

Radial (SI)n (1) block copolymer.

Contains ~25% 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 4293A 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 a high styrene, low viscosity product that can be formulated into hot melt adhesive systems having low viscosity, good heat resistance, and excellent specific adhesion to low energy surfaces such as polyolefins. Consequently, adhesive formulations based on VECTOR 4293A (SI)n are ideally suited for disposables applications as well as for specialty packaging and bookbinding end uses.

Forms Pellets Physical Nominal Value Unit Test Method Specific Gravity 0.938 g/cm³ ASTM D792 Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) 1.1 g/10 min ASTM D1238 Ash Content 0.3 wt% ASTM D1416 Styrene Content 30.0 wt% Internal Method Diblock Content 24.0 wt% Internal Method Volatiles 0.3 wt% Internal Method Hardness Nominal Value Unit Test Method Durometer Hardness (Shore A, 1 sec) 63	General Information			
Good Adhesion High Heat Resistance Low Viscosity Uses Adhesives Packaging Forms Pellets Physical Nominal Value Unit Test Method Specific Gravity 0.938 0,900 Meth Mass-Flow Rate (MFR) (200°C/5.0 kg) 1.1 0,3 0,3 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0	Features	Copolymer		
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Tensile Strength - Flow ² (Yield) 20.7 MPa ASTM D412	Elastomers	Nominal Value	Unit	Test Method
	Tensile Stress - Flow ¹ (300% Strain)	2.76	MPa	ASTM D412
Tensile Elongation - Flow ³ (Break) 1000 % ASTM D412	Tensile Strength - Flow ² (Yield)	20.7	MPa	ASTM D412
	Tensile Elongation - Flow ³ (Break)	1000	%	ASTM D412

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

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