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.

General Information			
Features	Copolymer Food Contact Acceptable Good Adhesion High Heat Resistance Low Viscosity		
Uses	Adhesives Packaging		
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		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Flow [1] (300% Strain)	2.76	MPa	ASTM D412
Tensile Strength - Flow [2] (Yield)	20.7	MPa	ASTM D412
Tensile Elongation - Flow [3] (Break)	1000	%	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.

Recommended distributors for this material

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