

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.

Properties			
<i>Polymer Properties</i>	Test Method	Unit	Typical Values⁽²⁾
Styrene	Dexco Method	Wt. %	30
Diblock Content	Dexco Method	Wt. %	24
Melt Flow Rate ⁽³⁾	ASTM D 1238	dg/min	11
Volatiles	Dexco Method	Wt. %	0.3
Ash	ASTM D 1416	Wt. %	0.3
<i>Physical Properties</i>			
Tensile Strength ⁽⁴⁾	ASTM D 412	PSI (MPa)	3000 (20.7)
300% Modulus ⁽⁵⁾	ASTM D 412	PSI (MPa)	400 (2.8)
Elongation at Break ⁽⁴⁾	ASTM D 412	%	1000
Hardness ⁽⁵⁾	ASTM D 2240	Shore A	63
Specific Gravity	ASTM D 792		0.94

(1) "(SI)_n denotes radial styrene-isoprene block copolymer.

(2) Typical values, intended only as guides, and should not be construed as specifications.

(3) Condition 200°C/5 kg.

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

(5) 1 sec. dwell.

PRODUCT STEWARDSHIP:

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