

VECTOR 4114A

Styrene-Isoprene-Styrene/ Styrene-Isoprene (SIS/SI) Block Copolymer

- Linear triblock, diblock copolymer blend.
- Contains ~42% residual diblock.
- Low styrene, very low modulus copolymer.
- Outstanding thermal stability.
- Outstanding melt processability.
- VECTOR styrenic block copolymers find use under certain FDA 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 4114A styrene-isoprene-styrene/ styrene-isoprene block copolymer is produced via anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture.

VECTOR 4114A is a blend of a linear, pure triblock copolymer and diblock copolymer SIS/SI⁽¹⁾. It is a low styrene, low viscosity product. It contains ~42% residual diblock. It is the softest SIS/SI block copolymer. It has outstanding melt processability. It is designed for use in the modification of the modulus properties of olefinic resins.

Properties	Test Method	Unit	Typical Value
<i>Resin Properties</i>			
Styrene	Dexco Method	Wt. %	15
Diblock Content	Dexco Method	Wt. %	42
MFR ⁽²⁾	ASTM D 1238	g/ 10 min	25
Ash	ASTM D 1416	Wt. %	0.5
<i>Physical Properties</i>			
Tensile Strength ⁽³⁾	ASTM D 412	PSI	1700
Elongation ⁽³⁾	ASTM D 412	%	1500
Hardness ⁽⁴⁾	ASTM D 2240	Shore A	24
Specific Gravity	ASTM D 792	g/cc	0.92
<i>Product Form</i>			Dense Pellet

- (1) "SIS/SI" denotes blend of a linear, styrene-isoprene-styrene triblock copolymer and styrene-isoprene diblock copolymer.
- (2) Condition (200°C/ 5 kg).
- (3) Typical values on compression molded plaques, intended only as guides, and should not be construed as specifications.
- (4) 1 sec. dwell.



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Dexco Polymers LP has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health and environmental information on our products and then take appropriate steps to protect employee and public health, and our environment. The success of our Product Stewardship program rests with each and every individual involved with Dexco products – from the initial concept and research, to manufacture, use, sale, and disposal of each product.

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