

VECTOR 4211A

Styrene-Isoprene-Styrene (SIS) Block Copolymer

- Linear, pure triblock copolymer.
- Contains <1% diblock.
- Medium styrene 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 4211A styrene-isoprene-styrene block copolymer is produced via anionic polymerization technology from Dexco Polymers LP, a Dow/ ExxonMobil Venture.

VECTOR 4211A is a linear, pure triblock copolymer. It has a higher styrene content than VECTOR 4111A, thus providing higher modulus as well as creep and heat resistance. These attributes are very useful in designing film and compounds with high elasticity. The properties of VECTOR 4211A are also particularly suited in formulating adhesives for disposables that require high cohesive strength, low creep compliance, and low viscosity at low application temperatures.

Properties	Test Method	Unit	Typical Value
<i>Resin Properties</i>			
Styrene	Dexco Method	Wt. %	30
Diblock Content	Dexco Method	Wt. %	<1.0
MFR ⁽¹⁾	ASTM D 1238	g/ 10 min	13
Ash	ASTM D 1416	Wt. %	0.2
<i>Physical Properties</i>			
Tensile Strength ⁽²⁾	ASTM D 412	PSI	3500
300% Modulus ⁽²⁾	ASTM D 412	PSI	275
Elongation ⁽²⁾	ASTM D 412	%	900
Hardness ⁽³⁾	ASTM D 2240	Shore A	62
Specific Gravity	ASTM D 792	g/cc	0.94
<i>Product Form</i>			Dense Pellet

(1) Condition (200°C/ 5 kg).

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

(3) 1 sec. dwell.



PRODUCT STEWARDSHIP:

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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