

## VECTOR 4111A

### Styrene-Isoprene-Styrene (SIS) Block Copolymer

- Linear, pure triblock copolymer.
- Contains no residual diblock.
- Low styrene, 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 4111A styrene-isoprene-styrene block copolymer is produced via anionic polymerization technology from Dexco Polymers LP, a Dow/ ExxonMobil Venture.

VECTOR 4111A is a linear, pure SIS<sup>(1)</sup> triblock copolymer with narrow molecular weight distribution. It is a low styrene, low modulus copolymer. It contains no residual diblock. It is the softest pure SIS triblock and has the highest elasticity. It has outstanding melt processability. It is designed for use in elastomeric films and highly elastomeric compounds.

<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>Typical Value</b>
<b><i>Resin Properties</i></b>			
Styrene	Dexco Method	Wt. %	18
Diblock Content	Dexco Method	Wt. %	<1.0
MFR <sup>(2)</sup>	ASTM D 1238	g/ 10 min	12
Ash	ASTM D 1416	Wt. %	0.30
<b><i>Physical Properties</i></b>			
Tensile Strength <sup>(3)</sup>	ASTM D 412	PSI	4000
300% Modulus <sup>(3)</sup>	ASTM D 412	PSI	275
Elongation <sup>(3)</sup>	ASTM D 412	%	1200
Hardness <sup>(4)</sup>	ASTM D 2240	Shore A	39
Specific Gravity	ASTM D 792	g/cc	0.93
<b><i>Product Form</i></b>			Dense Pellet

- (1) "SIS" denotes linear, styrene-isoprene-styrene triblock copolymer.
- (2) Condition G (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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