

VECTOR 4211A / VECTOR 4211N Styrene-Isoprene-Styrene (SIS) Block Copolymers

- Linear SIS⁽¹⁾ triblock copolymer.
- Contains <1% diblock copolymer.
- Medium styrene, medium modulus.

VECTOR 4211A and VECTOR 4211N styrenic block copolymers are linear triblock copolymers with narrow molecular weight distributions. They have a higher styrene content and higher modulus than VECTOR 4111A SIS, making them well-suited for use in elastomer compounds, polymer modification applications and pressure sensitive adhesive applications requiring high cohesion.

- VECTOR 4211A SIS is offered as a dense pellet supplied from the United States.
- VECTOR 4211N SIS is offered as a porous pellet supplied from China.

Polymer Properties	Test Method	Units	Typical Value ⁽²⁾
Styrene	TSRC / Dexco Method	wt%	30
Diblock Content	TSRC / Dexco Method	wt%	<1
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	13
Solution Viscosity ⁽³⁾	ASTM D2196	cps	300
Ash	ASTM D5630	wt%	0.3
Physical Properties			
Tensile at Break ⁽⁴⁾	ISO 37	MPa	16
Stress at 300% Elongation ⁽⁴⁾	ISO 37	MPa	3.4
Elongation at Break ⁽⁴⁾	ISO 37	%	1000
Hardness ⁽⁵⁾	ASTM D2240	Shore A	60
Bulk Density	ASTM D1895	g/cm ³	0.55 (4211A) 0.33 (4211N)
Specific Gravity	ASTM D792		0.94

1) SIS denotes a linear styrene-isoprene-styrene triblock copolymer.

2) Not to be construed as specifications.

3) 25 wt% in Toluene; 25°C.

4) Roll-milled, compression-molded plaques.

5) Dwell time - 1 second.

TSRC

