

VECTOR 4114A / VECTOR 4114N

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

- Blend of linear SIS ⁽¹⁾ triblock and SI ⁽¹⁾ diblock copolymer.
- Contains ~42% SI diblock copolymer.
- Low styrene, very low modulus.

VECTOR 4114A and VECTOR 4114N styrenic block copolymers are blended products composed of a linear SIS triblock copolymer and an SI diblock copolymer. They are softer than VECTOR 4113A SIS/SI due to higher diblock content, making them well-suited for use in hot melt pressure sensitive adhesives, elastomer compounds and photopolymer plate applications.

- VECTOR 4114A SIS/SI is offered as a dense pellet supplied from the United States.
- VECTOR 4114N SIS/SI is offered as a porous pellet supplied from China.

Polymer Properties	Test Method	Units	Typical Value ⁽²⁾
Styrene	TSRC / Dexco Method	wt%	15
Diblock Content	TSRC / Dexco Method	wt%	42
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	25
Solution Viscosity ⁽³⁾	ASTM D2196	cps	700
Ash	ASTM D5630	wt%	0.6
Physical Properties			
Tensile at Break ⁽⁴⁾	ISO 37	MPa	11
Stress at 300% Elongation ⁽⁴⁾	ISO 37	MPa	0.6
Elongation at Break ⁽⁴⁾	ISO 37	%	1400
Hardness ⁽⁵⁾	ASTM D2240	Shore A	26
Bulk Density	ASTM D1895	g/cm ³	0.55 (4114A) 0.33 (4114N)
Specific Gravity	ASTM D792		0.92

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

VECTOR 4114A and VECTOR 4114N styrenic block copolymers are produced via TSRC / Dexco's proprietary anionic polymerization technology.

VECTOR styrenic block copolymers are available in a number of different packaging types. Consult your TSRC / Dexco Sales Representative for more information on packaging options and for regulatory compliance information.

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MEDICAL APPLICATION POLICY:

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