VECTOR®
STYRENIC BLOCK COPOLYMERS

VECTOR 4113A / VECTOR 4113N

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

- Blend of linear SIS (1) triblock and SI (1) diblock copolymer.
- Contains ~18% SI diblock copolymer.
- Low styrene, low modulus.

VECTOR 4113A and VECTOR 4113N styrenic block copolymers are blended products composed of a linear SIS triblock copolymer and an SI diblock copolymer. They are softer than VECTOR 4111A SIS/SI due to lower styrene content and presence of diblock copolymer, making them well-suited for use in hot melt pressure sensitive adhesives, elastomer compounds and photopolymer plate applications.

- VECTOR 4113A SIS/SI is offered as a dense pellet supplied from the United States.
- VECTOR 4113N 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%	18
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	11
Solution Viscosity (3)	ASTM D2196	cps	1240
Ash	ASTM D5630	wt%	0.3
Physical Properties			
Tensile at Break (4)	ISO 37	MPa	20
Stress at 300% Elongation (4)	ISO 37	MPa	0.8
Elongation at Break (4)	ISO 37	%	1300
Hardness (5)	ASTM D2240	Shore A	33
Bulk Density	ASTM D1895	g/cm^3	0.55 (4113A) 0.33 (4113N)
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.

TSRC