VECTOR®
STYRENIC BLOCK COPOLYMERS

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 Strength [4]	TSRC / Dexco Method	MPa	13
300% Modulus [4]	TSRC / Dexco Method	MPa	0.7
Elongation [4]	TSRC / Dexco Method	%	1500
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.

TSRC