

VECTOR 4186A Styrene-Isoprene (SI)_n Block Copolymer

- Radial (SI)_n⁽¹⁾ block copolymer.
- Contains ~73% SI⁽¹⁾ diblock copolymer.
- Low styrene.

VECTOR 4186A styrenic block copolymer is a radial block copolymer with a narrow molecular weight distribution. It is well-suited for use in low viscosity hot melt pressure sensitive adhesive applications requiring excellent adhesion to low energy surfaces, low migration characteristics, and enhanced die-cutting characteristics.

- VECTOR 4186A (SI)_n is offered as a dense pellet supplied from the United States.

Polymer Properties	Test Method	Units	Typical Value ⁽²⁾
Styrene	TSRC / Dexco Method	wt%	18
Diblock Content	TSRC / Dexco Method	wt%	73
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	22
Solution Viscosity ⁽³⁾	ASTM D2196	cps	540
Ash	ASTM D5630	wt%	0.7
Physical Properties			
Tensile Strength ⁽⁴⁾	TSRC / Dexco Method	MPa	3.5
300% Modulus ⁽⁴⁾	TSRC / Dexco Method	MPa	0.8
Elongation ⁽⁴⁾	TSRC / Dexco Method	%	1400
Hardness ⁽⁵⁾	ASTM D2240	Shore A	28
Bulk Density	ASTM D1895	g/cm ³	0.55
Specific Gravity	ASTM D792		0.93

1) (SI)_n denotes a radial styrene-isoprene block 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

