

VECTOR 4230 Styrene-Isoprene (SI)_n Block Copolymer

- Radial (SI)_n⁽¹⁾ block copolymer.
- Contains ~30% SI⁽¹⁾ diblock copolymer.
- Low styrene.

VECTOR 4230 styrenic block copolymer is a radial block copolymer with a narrow molecular weight distribution. The radial structure provides adhesives with lower viscosity as well as higher modulus, cohesive strength, and heat resistance than comparable linear SIS/SI. It is well-suited for hot melt pressure sensitive adhesive tapes and high shear, pressure sensitive adhesive applications. It is formulated with the antioxidant tris(nonylphenyl) phosphite (TNPP).

- VECTOR 4230 (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%	20
Diblock Content	TSRC / Dexco Method	wt%	30
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	13
Solution Viscosity ⁽³⁾	ASTM D2196	cps	540
Ash	ASTM D5630	wt%	0.3
Physical Properties			
Tensile Strength ⁽⁴⁾	TSRC / Dexco Method	MPa	15
300% Modulus ⁽⁴⁾	TSRC / Dexco Method	MPa	1.5
Elongation ⁽⁴⁾	TSRC / Dexco Method	%	1250
Hardness ⁽⁵⁾	ASTM D2240	Shore A	47
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

