

Vector[®] 4300AS

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

- Linear SIS/SI⁽¹⁾ block copolymer blend
- Contains ~18% SI⁽¹⁾ diblock
- Low styrene, low viscosity, low modulus copolymer
- Outstanding thermal stability & melt processability
- This linear block copolymer has a narrow molecular weight distribution.

VECTOR 4300AS is the talc free version of Vector 4300A and is made from the same blend of linear pure SIS triblock with pure SI diblock as the Vector 4300A. The individual components are made via proprietary sequential anionic polymerization technology from TSRC Specialty Materials. It has outstanding melt processability and has been found to be useful in the production of flexographic photopolymer printing plates.

- VECTOR 4300AS SIS is offered as a dense pellet supplied from the United States.

Polymer Properties	Test Method	Unit	Typical Value ⁽¹⁾
Specific Gravity	ASTM D792	-	0.92
Hardness ⁽²⁾	ASTM D2240	Shore A	31
Tensile at Break ⁽³⁾	ISO 37	MPa	24.8
Stress at 300% Elongation ⁽³⁾	ISO 37	MPa	1.1
Elongation at Break ⁽³⁾	ISO 37	%	1300
Solution Viscosity ⁽⁴⁾	ASTM D2196	cps	1200

Sales Specification	Test Method	Unit	Range	
			Min	Max
Styrene	TSRC Method	wt%	14.5	16.0
Diblock Content	TSRC Method	wt%	17.0	20.0
Volatile Matter	TSRC Method	wt%	0.0	0.50
Ash	ASTM D5630	wt%	0.02	0.25
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	8.7	12.3

1) Typical values intended only as guides and should not to be construed as specifications

2) Dwell time - 1 second

3) Roll-milled, compression-molded plaques

4) 25 wt% in Toluene; 25°C