

VECTOR 4411A

Styrene-Isoprene-Styrene (SIS) Block Copolymer

- Linear SIS⁽¹⁾ triblock copolymer.
- Contains <1% diblock copolymer.
- High styrene, high modulus, low viscosity.

VECTOR 4411A styrenic block copolymer is a linear triblock copolymer with a narrow molecular weight distribution. It has excellent creep resistance and is well-suited for use in hot melt adhesives, disposable diaper applications and the compatibilization of styrenic/olefinic polymer blends.

- VECTOR 4411A SIS is offered as a dense pellet supplied from the United States.

Polymer Properties	Test Method	Units	Typical Value ⁽²⁾
Styrene	TSRC / Dexco Method	wt%	44
Diblock Content	TSRC / Dexco Method	wt%	<1
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	40
Solution Viscosity ⁽³⁾	ASTM D2196	cps	120
Ash	ASTM D5630	wt%	0.2
Physical Properties			
Tensile at Break ⁽⁴⁾	ISO 37	MPa	17
Stress at 300% Elongation ⁽⁴⁾	ISO 37	MPa	6.1
Elongation at Break ⁽⁴⁾	ISO 37	%	1000
Hardness ⁽⁵⁾	ASTM D2240	Shore A	83
Bulk Density	ASTM D1895	g/cm ³	0.55
Specific Gravity	ASTM D792		0.96

- 1) SIS denotes a linear styrene-isoprene-styrene triblock 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