

VECTOR[®] 4111S

Styrene-Isoprene-Styrene (SIS) Block Copolymers

VECTOR[®] 4111S is a linear triblock copolymers with narrow molecular weight distributions.

- Soft pure triblock copolymers with outstanding melt processability and elasticity.
- Well-suited for use in elastomer compounds, polymer modification applications, and high shear pressure-sensitive adhesive applications.
- VECTOR[®] 4111S (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	40
Tensile at Break ⁽³⁾	ISO 37	MPa	26
Stress at 300% Elongation ⁽³⁾	ISO 37	MPa	1.3
Elongation at Break ⁽³⁾	ISO 37	%	1200
Solution Viscosity ⁽⁴⁾	ASTM D2196	cps	850

Sales Specification	Test Method	Unit	Range	
			Min	Max
Styrene	TSRC Method	wt%	17.5	19.0
Diblock Content	TSRC Method	wt%	0.0	1.0
Volatile Matter	TSRC Method	wt%	0.0	0.50
Ash	ASTM D5630	wt%	0.02	0.25
Melt Flow Rate (200°C/10kg)	ASTM D1238	g/10 min	9.7	13.8

- 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