

VECTOR[®] 4211S Styrene-Isoprene-Styrene (SIS) Block Copolymers

VECTOR[®] 4211S is a linear triblock copolymer with a narrow molecular weight distribution.

The product exhibits the following characteristics:

- High styrene content and high modulus.
- Well-suited for use in elastomer compounds, polymer modification and pressure sensitive adhesive applications requiring high cohesion.
- VECTOR[®] 4211S (SIS) is offered as a dense pellet supplied from the United States.

Polymer Properties	Test Method	Unit	Typical Value ⁽¹⁾
Specific Gravity	ASTM D792	-	0.94
Hardness ⁽²⁾	ASTM D2240	Shore A	60
Tensile at Break ⁽³⁾	ISO 37	MPa	24
Stress at 300% Elongation ⁽³⁾	ISO 37	MPa	4.2
Elongation at Break ⁽³⁾	ISO 37	%	1000
Solution Viscosity ⁽⁴⁾	ASTM D2196	cps	300

Sales Specification	Test Method	Unit	Range	
			Min	Max
Styrene	TSRC Method	wt%	28.0	31.0
Diblock Content	TSRC Method	wt%	0.0	1.0
Volatile Matter	TSRC Method	wt%	0.0	0.5
Ash	ASTM D5630	wt%	0.02	0.25
Melt Flow Rate (200°C/5kg)	ASTM D1238	g/10 min	10.0	16.0

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

2) Dwell time - 1 second

3) Roll-milled, compression-molded plaques

4) 25 wt% in Toluene; 25°C

