

# VECTOR 2518

## Styrene-Butadiene-Styrene (SBS) Block Copolymer

- Linear SBS <sup>(1)</sup> triblock copolymer.
- Contains <1% diblock copolymer.
- Medium styrene, medium modulus.

VECTOR 2518 styrenic block copolymer is a linear triblock copolymer with a narrow molecular weight distribution. It has excellent thermoplastic elastomer properties and outstanding physical strength, making it well-suited for use as a binder in elastomer compounds. It is formulated with the antioxidant tris(nonylphenyl) phosphite (TNPP).

- VECTOR 2518 SBS is offered as a porous pellet supplied from the United States.

Polymer Properties	Test Method	Units	Typical Value <sup>(2)</sup>
Styrene	TSRC / Dexco Method	wt%	31
Diblock Content	TSRC / Dexco Method	wt%	<1
Melt Flow Rate <sup>(3)</sup>	ASTM D1238	g/10 min	5
Solution Viscosity <sup>(4)</sup>	ASTM D2196	cps	3900
Ash	ASTM D5630	wt%	0.7
Physical Properties			
Tensile Strength <sup>(5)</sup>	TSRC / Dexco Method	MPa	33
300% Modulus <sup>(5)</sup>	TSRC / Dexco Method	MPa	4.2
Elongation <sup>(5)</sup>	TSRC / Dexco Method	%	700
Hardness <sup>(6)</sup>	ASTM D2240	Shore A	80
Bulk Density	ASTM D1895	g/cm <sup>3</sup>	0.36
Specific Gravity	ASTM D792		0.94

- 1) SBS denotes a linear styrene-butadiene-styrene triblock copolymer.
- 2) Not to be construed as specifications.
- 3) Modified MFR conditions: 200°C/10kg; 0.1564" capillary.
- 4) 25 wt% in Toluene; 25°C.
- 5) Roll-milled, compression-molded plaques.
- 6) Dwell time - 1 second.