

VECTOR 2518LD

Styrene-Butadiene-Styrene (SBS) Block Copolymer

- SBS⁽¹⁾ triblock copolymer.
- Contains <1% diblock copolymer.
- Medium styrene, high viscosity and high modulus copolymer.
- Outstanding thermal stability.
- Product form is a low density porous crumb, dusted with talc.
- VECTOR styrenic block copolymers find use under certain regulations as articles or as ingredients in articles intended for food contact or medical applications. Please contact your Dexco Polymers agent for a detailed letter of certification or further information.

VECTOR 2518LD styrene-butadiene-styrene block copolymer is produced via proprietary sequential anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture. It is formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).

It has excellent thermoplastic elastomer properties and outstanding physical strength. It is designed for use as an impact/toughness modifier in blends with styrenics and as an asphalt modifier to lower temperature susceptibility.

Properties			
<i>Polymer Properties</i>	Test Method	Unit	Typical Values ⁽²⁾
Styrene	Dexco Method	Wt. %	31
Diblock Content	Dexco Method	Wt. %	<1
Melt Flow Rate ⁽³⁾	ASTM D 1238	dg/min	6
Solution Viscosity ⁽⁴⁾	ASTM D 2196	cps	1200
Volatiles	Dexco Method	Wt. %	0.3
Ash	ASTM D 1416	Wt. %	5.0
<i>Physical Properties</i>			
Tensile Strength ⁽⁵⁾	ASTM D 412	PSI (MPa)	4400 (30.3)
300% Modulus ⁽⁵⁾	ASTM D 412	PSI (MPa)	600 (4.1)
Elongation at Break ⁽⁵⁾	ASTM D 412	%	1000
Hardness ⁽⁶⁾	ASTM D 2240	Shore A	78
Specific Gravity	ASTM D 792		0.94

- (1) "SBS" denotes linear styrene-butadiene-styrene block copolymer.
- (2) Typical values, intended only as guides, and should not be construed as specifications.
- (3) Modified MFR conditions: 200°C/10 kg, 0.1564" capillary.
- (4) 25 Wt. % in toluene at 25°C.
- (5) Tested on roll milled/compression molded plaques (0.035" thick). Tested in the transverse direction.
- (6) 1 sec. dwell.