

VECTOR® 2518A

Styrene Butadiene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 2518A

Styrene-Butadiene-Styrene (SBS) Block Copolymer

SBS(1) triblock copolymer.

Contains <1% diblock copolymer.

Medium styrene, high modulus copolymer.

Outstanding thermal stability.

Supplied as a porous pellet, 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 2518A styrene-butadiene-styrene block copolymer is produced via proprietary sequential anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture. VECTOR 2518A is not formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).

It is more creep resistant than VECTOR 8508A SBS. 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 in elastomeric film compounds.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Strength		
	Good Thermal Stability		
	Porous		
Uses	Plastics Modification		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.60	g/10 min	ASTM D1238
Solution Viscosity	1200	mPa · s	ASTM D2196
Ash Content	0.7	wt%	ASTM D1416
Styrene Content	31.0	wt%	Internal Method
Stress Relaxation ¹			
Peak Force @ 200% strain (A) : 23°C, 889.0 µm	2.21	MPa	
Peak Force @ 500% strain : 23°C, 889.0 µm	7.17	MPa	
Ratio (A:B) : 23°C, 889.0 µm	2.20		
Relaxation @ 200% strain : 23°C, 889.0 µm	5.7	%	
Set after 500% strain : 23°C, 889.0 µm	16	%	
Unload @ 50% strain (B) : 23°C, 889.0 µm	1.03	MPa	

Diblock Content	< 1.0	wt%	Internal Method
Volatiles	0.3	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (300% Strain, 25°C)	4.14	MPa	ASTM D412
Tensile Strength ³ (Yield, 25°C)	30.3	MPa	ASTM D412
Tensile Elongation ⁴ (Break, 25°C)	1000	%	ASTM D412
NOTE			

1. Described in US 7,445,831 patent.
Tested on roll milled/compression
molded plaques (0.035" thick).
Tested in the transverse direction
at room temperature.

2. 25 Wt.% in toluene

3. 25 Wt.% in toluene

4. 25 Wt.% in toluene

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

