VECTOR® 8508A

Styrene Butadiene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 8508A
Styrene-Butadiene-Styrene (SBS) Block Copolymer
SBS(1) triblock copolymer.
Contains <1% diblock copolymer.
Medium styrene, low modulus copolymer.
Outstanding thermal stability and excellent melt processability.
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 8508A styrene-butadiene-styrene block copolymer is produced via proprietary sequential anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture. It is not formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).
It has excellent thermoplastic elastomer properties, melt processability, and physical strength. It has superior melt processability when compared to VECTOR 2518A SBS. It is designed for use as an impact/toughness modifier in styrenics, in elastomeric film applications, and in formulating adhesives.

General Information	
Features	Copolymer
	Food Contact Acceptable
	Good Processability
	Good Thermal Stability
	High Strength
	Linear Polymer Structure
Uses	Adhesives
	Film
	Plastics Modification
Forms	Pellets

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.2	g/10 min	ASTM D1238
Solution Viscosity	400	mPa·s	ASTM D2196
Ash Content	0.8	wt%	ASTM D1416
Styrene Content	29.0	wt%	Internal Method
Stress Relaxation [1]			
Peak Force @ 200% strain (A) : 23°C, 889.0 µm	1.86	MPa	
Peak Force @ 500% strain : 23°C, 889.0 µm	6.14	MPa	
Ratio (A:B) : 23°C, 889.0 µm	2.74		
Relaxation @ 200% strain : 23°C, 889.0 µm	9.1	%	

Set after 500% strain : 23°C, 889.0 µm	15	%	
Unload @ 50% strain (B) : 23°C, 889.0 µm	0.689	MPa	
Diblock Content	< 1.0	wt%	Internal Method
Volatiles	0.4	wt%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 1 sec)	65		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (300% Strain, 25°C)	3.65	MPa	ASTM D412
Tensile Strength [3] (Yield, 25°C)	33.1	MPa	ASTM D412
Tensile Elongation [4] (Break, 25°C)	1100	%	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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