VECTOR® 7400

Styrene Butadiene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 7400
Styrene-Butadiene-Styrene (SBS) Block Copolymer
Oil extended SBS(1) block copolymer.
Contains <1% diblock copolymer and ~33% mineral oil.
Medium styrene, low viscosity, low modulus copolymer.
Outstanding thermal stability and 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 7400 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 is the softest SBS triblock and is highly elastic. It has moderate physical strength and good melt processability. It is designed for use as an impact modifier in styrenics and in elastomeric film compounds.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Copolymer
	Food Contact Acceptable
	Good Processability
	Good Thermal Stability
	High Elasticity
	Low Viscosity
	Medium Strength
	Soft
Uses	Compounding
	Film
	Plastics Modification
Forms	Pellets
Processing Method	Compounding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.8	g/10 min	ASTM D1238
Ash Content	0.6	wt%	ASTM D1416
Styrene Content [1]	31.0	wt%	Internal Method
Stress Relaxation [2]			
Peak Force @ 200% strain (A) : 889.0 µm	1.21	MPa	
Peak Force @ 500% strain : 889.0 µm	4.07	MPa	

Ratio (A:B) : 889.0 µm	2.40		
Relaxation @ 200% strain : 889.0 µm	13	%	
Set after 500% strain : 889.0 µm	13	%	
Unload @ 50% strain (B) : 889.0 µm	0.517	MPa	
Diblock Content	< 1.0	wt%	Internal Method
Mineral Oil Content	33.0	wt%	Internal Method
Volatiles	0.3	wt%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 1 sec)	47		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (300% Strain, 0.889 mm)	3.10	MPa	ASTM D412
Tensile Strength - Across Flow (Yield, 0.889 mm)	19.3	MPa	ASTM D412
Tensile Elongation - Across Flow (Break, 0.889 mm)	1300	%	ASTM D412
NOTE			
1.	(polymer basis)		
2.	Described in US 7,445,831 patent. Tested on roll milled/compression molded plaques. Tested in the transverse direction at room temperature.		

Recommended distributors for this material

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