

VECTOR® 4461

Styrene Butadiene Styrene Block Copolymer
Dexco Polymers LP

Message:

VECTOR 4461
Styrene-Butadiene-Styrene (SBS) Block Copolymer
SBS(1) triblock copolymer.
Contains <1% diblock copolymer.
High styrene, high melt flow block copolymer.
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 4461 linear, pure SBS 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 the lowest elasticity of the SBS family of products while providing high modulus, low creep resistance, excellent cohesive strength, and good melt processability. It is particularly suited for hot melt adhesives requiring high strength and low viscosity.

General Information			
Additive	Antioxidant		
Features	Food Contact Acceptable		
	Good Creep Resistance		
	Good Processability		
	High Flow		
	High Strength		
	Low Viscosity		
	Porous		
Uses	Adhesives		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.3	g/10 min	ASTM D1238
Solution Viscosity	850	mPa · s	ASTM D2196
Ash Content	0.5	wt%	ASTM D1415
Styrene Content	43.0	wt%	Internal Method
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)	87		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain, 25°C)	8.27	MPa	ASTM D412
Tensile Strength ² (Yield, 25°C)	31.0	MPa	ASTM D412
Tensile Elongation ³ (Break, 25°C)	700	%	ASTM D412
NOTE			

1.	25 Wt. % in toluene
2.	25 Wt. % in toluene
3.	25 Wt. % in toluene

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Recommended distributors for this material

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