

VECTOR 4461

Styrene-Butadiene-Styrene (SBS) Block Copolymer

- Linear, pure SBS triblock.
- Contains <1% diblock.
- High styrene, high melt flow block copolymer.
- VECTOR 4461 styrenic block copolymer is FDA compliant as an article or as ingredient 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 anionic polymerization technology from Dexco Polymers LP, a Dow/ ExxonMobil Venture.

VECTOR 4461 is a linear, pure SBS triblock copolymer. It is a high styrene and low molecular weight polymer with no residual diblock. It is the least elastic 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.

Properties	Test Method	Unit	Typical Value
<i>Resin Properties</i>			
Styrene	Dexco Method	Wt. %	43
Diblock Content	Dexco Method	Wt. %	<1
Melt Flow Rate ⁽¹⁾	ASTM D 1238	g/ 10 min.	23
Ash	ASTM D 1416	Wt. %	0.5
<i>Physical Properties</i>			
Tensile Strength ⁽³⁾	ASTM D 412	PSI	4500
300% Modulus ⁽³⁾	ASTM D 412	PSI	1200
Elongation ⁽³⁾	ASTM D 412	%	700
Hardness ⁽⁴⁾	ASTM D 2240	Shore A	87
Bulk Density	Dexco Method	lb./cu.ft.	27
Specific Gravity	ASTM D 792	g/cc	0.96
<i>Product Form</i>			Porous Pellet

- (1) "SBS" denotes linear, styrene-butadiene-styrene triblock copolymer.
- (2) Condition (200°C/ 5 kg).
- (3) Typical values on compression molded plaques, intended only as guides, and should not be construed as specifications.
- (4) 1 sec. dwell.



PRODUCT STEWARDSHIP:

Dexco Polymers LP has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health and environmental information on our products and then take appropriate steps to protect employee and public health, and our environment. The success of our Product Stewardship program rests with each and every individual involved with Dexco products – from the initial concept and research, to manufacture, use, sale, and disposal of each product.

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Dexco Polymers LP strongly encourages its customers to review both their manufacturing processes and their applications of Dexco products from the standpoint of human health and environmental quality to ensure that Dexco products are not used in ways for which they are not intended or tested. Dexco Polymers personnel are available to answer your questions and to provide reasonable technical support. Dexco product literature, including safety data sheets, should be consulted prior to use of Dexco products. Your Dexco Polymers sales representative can arrange the proper contacts, or write to Dexco Polymers LP, 12012 Wickchester, Suite 280, Houston, Texas 77079 U.S.A.

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