

# VECTOR® 4411A

Styrene Isoprene Styrene Block Copolymer  
Dexco Polymers LP

Message:

VECTOR 4411A  
Styrene-Isoprene-Styrene (SIS) Block Copolymer  
SIS(1) triblock copolymer.  
Contains <1% diblock copolymer.  
High styrene, high modulus copolymer.  
Outstanding thermal stability and melt processability.  
Supplied as a dense 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 4411A is a styrene-isoprene-styrene triblock copolymer 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 is a high styrene, low viscosity product with a high modulus and excellent creep resistance. It is the least elastic of the SIS products. It is a flexible thermoplastic resin that can be blended with medium or low styrene SIS and/or SBS copolymers. It is designed for use as a compatibilizer in styrenic/olefinic blends. It has good physical properties and outstanding melt processability. It is particularly suited for use in hot melt adhesive applications for disposable articles.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Flexibility		
	Good Processability		
	Good Thermal Stability		
	Low Viscosity		
Uses	Adhesives		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Solution Viscosity	120	mPa · s	ASTM D2196
Ash Content	0.2	wt%	ASTM D1416
Styrene Content	44.0	wt%	Internal Method
Diblock Content	< 1.0	wt%	Internal Method
Volatiles	0.2	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 <sup>1</sup> (300% Strain, 25°C)	8.96	MPa	ASTM D412
Tensile Strength <sup>2</sup> (Yield, 25°C)	20.7	MPa	ASTM D412
Tensile Elongation <sup>3</sup> (Break, 25°C)	750	%	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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