

VECTOR® 4211

Styrene Isoprene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 4211
Styrene-Isoprene-Styrene (SIS) Block Copolymer
SIS(1) triblock copolymer.
Contains < 1% diblock copolymer.
Medium 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 4211 is a styrene-isoprene-styrene triblock copolymer and 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 useful in applications requiring a combination of high modulus and high elasticity. It is also particularly suited for formulating adhesives for disposables that require high cohesive strength, low creep compliance, and low viscosity at low application temperatures.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Processability		
	Good Thermal Stability		
	High Elasticity		
	High Strength		
	Low (to None) Cadmium Content		
	Low Temperature Strength		
Uses	Low Viscosity		
	Adhesives		
	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.3	g/10 min	ASTM D1238
Solution Viscosity	300	mPa · s	ASTM D2196
Ash Content	0.2	wt%	ASTM D1416
Styrene Content	30.0	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)	62		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain, 25°C)	4.21	MPa	ASTM D412
Tensile Strength ² (Yield, 25°C)	26.2	MPa	ASTM D412
Tensile Elongation ³ (Break, 25°C)	900	%	ASTM D412

NOTE

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

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