VECTOR® 4215A

Styrene Isoprene Styrene + SI Block Copolymer

Dexco Polymers LP

Message:

VECTOR 4215A
Styrene-Isoprene-Styrene/Styrene-Isoprene (SIS/SI) Block Copolymer
SIS triblock / SI diblock (SIS/SI)(1) copolymer blend.
Contains ~18% SI diblock copolymer.
Medium styrene 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 4215A is a blend of linear, pure styrene-isoprene-styrene triblock and pure styrene-isoprene diblock copolymers. The individual components are 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 suited for applications where a higher modulus, higher temperature end-use, and enhanced creep resistance is desired versus VECTOR 4113A SIS/SI.
It is designed for use in hot melt adhesive applications such as disposable adhesives requiring superior cohesive strength and heat resistance along with low creep compliance.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Processability		
	Good Thermal Stability		
	High Heat Resistance		
	High Strength		
Uses	Adhesives		
	High Temperature Applications		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.938	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.90	g/10 min	ASTM D1238
Solution Viscosity	720	mPa·s	ASTM D2196
Ash Content	0.3	wt%	ASTM D1416
Styrene Content	30.0	wt%	Internal Method
Diblock Content	18.0	wt%	Internal Method
Volatiles	0.2	wt%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 1 sec)	58		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (300% Strain, 25°C)	3.45	MPa	ASTM D412

Tensile Strength [2] (Yield, 25°C)	17.9	MPa	ASTM D412
Tensile Elongation [3] (Break, -4°C)	1000	%	ASTM D412

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

Recommended distributors for this material

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WECHAT