

VECTOR® 4114

Styrene Isoprene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 4114

Styrene-Isoprene-Styrene/Styrene-Isoprene (SIS/SI) Block Copolymer

SIS triblock / SI diblock (SIS/SI)(1) copolymer blend.

Contains ~42% SI diblock copolymer.

Low styrene, very low viscosity and very low 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 4114 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 formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).

It is the softest SIS/SI block copolymer blend due to the presence of ~42% SI diblock. It is designed for use in the modification of the modulus properties of olefinic resins and in formulating adhesives.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	Good Thermal Stability		
	Low Viscosity		
	Soft		
Uses	Adhesives		
	Plastics Modification		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	g/10 min	ASTM D1238
Solution Viscosity	730	mPa · s	ASTM D2196
Ash Content	0.5	wt%	ASTM D1416
Styrene Content	15.0	wt%	Internal Method
Diblock Content	42.0	wt%	Internal Method
Volatiles	0.2	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	24		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress ¹ (300% Strain, 25°C)	0.758	MPa	ASTM D412
Tensile Strength ² (Yield, 25°C)	13.8	MPa	ASTM D412
Tensile Elongation ³ (Break, 25°C)	1500	%	ASTM D412
NOTE			
1.	25 Wt. % in toluene		
2.	25 Wt. % in toluene		
3.	25 Wt. % in toluene		

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