

VECTOR® 4113

Styrene Isoprene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 4113

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

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

Contains ~18% SI diblock copolymer.

Low styrene, low viscosity, 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 4113 is a blend of linear, pure styrene-isoprene-styrene triblock and pure styrene-isoprene diblock copolymer. 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 a soft SIS/SI block copolymer blend. It is softer than VECTOR 4111A pure triblock copolymer due to the presence of ~18% SI diblock. It is well-suited for use in formulating adhesives.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Processability		
	Good Thermal Stability		
	Low Viscosity		
	Soft		
Uses	Adhesives		
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)	1.0	g/10 min	ASTM D1238
Solution Viscosity	1200	mPa · s	ASTM D2196
Ash Content	0.3	wt%	ASTM D1416
Styrene Content	15.0	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)	31		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain, 25°C)	1.10	MPa	ASTM D412
Tensile Strength ² (Yield, 25°C)	24.8	MPa	ASTM D412

Tensile Elongation ³ (Break, 25°C)	1300	%	ASTM D412
NOTE			
1.	25 Wt. % in toluene		
2.	25 Wt. % in toluene		
3.	25 Wt. % in toluene		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

