

VECTOR® 4230

Styrene Isoprene Branched Copolymer

Dexco Polymers LP

Message:

VECTOR 4230

Styrene-Isoprene (SI)n Block Copolymer

Radial (SI)n (1) block copolymer.

Contains ~30% SI diblock copolymer.

High strength with low viscosity.

High modulus, high cohesive strength.

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 4230 styrene-isoprene radial copolymer is produced via proprietary anionic polymerization technology from Dexco Polymers LP, a Dow/ExxonMobil Venture. It is formulated with the antioxidant TNPP (tris(nonylphenyl) phosphite).

It is made with a patented coupling process that yields a polymer primarily with a 4-arm radial architecture. The radial structure provides viscosity shear thinning as well as higher modulus, cohesive strength, and heat resistance versus linear SIS/SI with comparable styrene content and melt flow rate. It is ideally suited for pressure sensitive applications requiring high strength, low viscosity, and easy melt processing.

General Information			
Features	Antioxidant		
	Food Contact Acceptable		
	Good Flexibility		
	Good Processability		
	High Heat Resistance		
	High Strength		
	Low Viscosity		
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)	1.4	g/10 min	ASTM D1238
Ash Content	0.3	wt%	ASTM D1416
Styrene Content	20.0	wt%	Internal Method
Diblock Content	30.0	wt%	Internal Method
Volatiles	0.3	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	46		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain, 0.889 mm)	1.86	MPa	ASTM D412
Tensile Strength - Across Flow ² (Yield, 0.889 mm)	13.8	MPa	ASTM D412
Tensile Elongation ³ (Break, 0.889 mm)	1200	%	ASTM D412
NOTE			

1.	Tested on roll milled/compression molded plaques
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