

VECTOR® 6241

Styrene Butadiene Styrene Block Copolymer

Dexco Polymers LP

Message:

VECTOR 6241
Styrene-Butadiene-Styrene (SBS) Block Copolymer
SBS(1) triblock copolymer.
Contains <1% diblock copolymer.
High styrene, low viscosity and high modulus copolymer.
Outstanding thermal stability and melt processability.
Supplied as a porous 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 6241 styrene-butadiene-styrene block copolymer 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 has high modulus and low creep properties. It has the lowest elasticity of the SBS family of products. It is a high performance, flexible thermoplastic resin that is designed for use as an impact modifier in styrenics and compatibilizer in styrenic/olefin blends. It has excellent physical strength and outstanding melt processability.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	Good Flexibility		
	Good Processability		
	Good Thermal Stability		
	High Strength		
	Low Viscosity		
	Porous		
Uses	Blending		
	Plastics Modification		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.3	g/10 min	ASTM D1238
Solution Viscosity	850	mPa · s	ASTM D2196
Ash Content	0.5	wt%	ASTM D1416
Styrene Content	43.0	wt%	Internal Method
Diblock Content	< 1.0	wt%	Internal Method
Volatiles	0.4	wt%	Internal Method

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	87		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain, 25°C)	8.27	MPa	ASTM D412
Tensile Strength ² (Yield, 25°C)	31.0	MPa	ASTM D412
Tensile Elongation ³ (Break, 25°C)	700	%	ASTM D412
NOTE			
1.	25 Wt. % in toluene		
2.	25 Wt. % in toluene		
3.	25 Wt. % in toluene		

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