

VECTOR® 2518LD

Styrene Butadiene Styrene Block Copolymer
Dexco Polymers LP

Message:

VECTOR 2518LD
Styrene-Butadiene-Styrene (SBS) Block Copolymer
SBS(1) triblock copolymer.
Contains <1% diblock copolymer.
Medium styrene, high viscosity and high modulus copolymer.
Outstanding thermal stability.
Product form is a low density porous crumb, 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 2518LD 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 excellent thermoplastic elastomer properties and outstanding physical strength. It is designed for use as an impact/toughness modifier in blends with styrenics and as an asphalt modifier to lower temperature susceptibility.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Copolymer		
	Food Contact Acceptable		
	Good Thermal Stability		
	High Strength		
	High Viscosity		
Uses	Asphalt Modification		
	Plastics Modification		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.60	g/10 min	ASTM D1238
Solution Viscosity	1200	mPa · s	ASTM D2196
Ash Content	5.0	wt%	ASTM D1416
Styrene Content	31.0	wt%	Internal Method
Diblock Content	< 1.0	wt%	Internal Method
Volatiles	0.3	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 1 sec)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (300% Strain, 25°C)	4.14	MPa	ASTM D412
Tensile Strength ² (Yield, 25°C)	30.3	MPa	ASTM D412

Tensile Elongation ³ (Break, 25°C)	1000	%	ASTM D412
NOTE			
1.	25 Wt.% in toluene		
2.	25 Wt.% in toluene		
3.	25 Wt.% in toluene		

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