

Solprene® 4318

Styrene Butadiene Styrene Block Copolymer

Dynasol Elastomers

Message:

Solprene 4318 is a linear block copolymer of styrene and butadiene, having 32% of styrene content, most of it forming a polystyrene block, which gives the polymer a thermoplastic behavior.

It has a non-staining antioxidant system; FDA approved for use in food contact applications and is essentially gel free with a very clear color.

S-4318 is used as compounding ingredient for adhesives. The product is an excellent modifier for asphalt applications including self-adhesive roofing membrane and sealant. Also is used in thermoplastic injected shoe soles formulations.

It is presented as free flowing porous crumb making easy its handling and dissolution.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
	Food Contact Acceptable		
	High Clarity		
	Linear Polymer Structure		
	Low Gel		
	Porous		
Uses	Adhesives		
	Asphalt Modification		
	Footwear		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Crumb		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.0	g/10 min	ASTM D1238
Block Styrene ¹	> 31	%	
Solution Viscosity - 5.23% in toluene ²	7.0	cSt	
Styrene Content	32	%	ASTM D5775
Volatile Matter	< 0.75	%	ASTM D5668
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	69		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	1.20	MPa	ASTM D412
Tensile Strength	3.70	MPa	ASTM D412
Tensile Elongation (Break)	> 1000	%	ASTM D412
NOTE			
1.	NM 202-07		

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