

Solprene® 416

Styrene Butadiene Styrene Block Copolymer

Dynasol Elastomers

Message:

Solprene 416 is a radial styrene/butadiene block copolymer having 30% of styrene content, most of it forming a polystyrenes block which gives the polymer a thermoplastic behavior. It develops properties of vulcanized rubber yet not requiring vulcanization. It is protected with a non staining antioxidant system; FDA approved, suitable for food contact applications and is essentially gel free with a very clear color.

Solprene 416 is used as elastomeric modifier for asphalt and plastics, as ingredient of soling formulations and as base for pressure sensitive adhesives. It is available as free flowing porous crumb for easy handling and dissolution, packaged in standard paper bags, super sacs and cardboard boxes.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
	Branched Polymer Structure		
	Food Contact Acceptable		
	High Clarity		
	Low Gel		
Uses	Porous		
	Adhesives		
	Asphalt Modification		
	Footwear		
Agency Ratings	Plastics Modification		
	FDA Food Contact, Unspecified Rating		
	Clear/Transparent		
	Crumb		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	DIN 53479
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	< 0.50	g/10 min	ASTM D1238
Block Styrene ¹	> 28	%	
Solution Viscosity - 5.23% in toluene ²	11	cSt	
Styrene Content	30	%	ASTM D5775
Volatile Matter	< 0.75	%	ASTM D5668
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.70	MPa	ASTM D412
Tensile Strength (Break)	17.0	MPa	ASTM D412
Tensile Elongation (Break)	800	%	ASTM D412

NOTE

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| 1. | NM 202-07 |
| 2. | NM 300-11 |

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