

# Solprene® 4301

Styrene Butadiene Styrene Block Copolymer

Dynasol Elastomers

Message:

Solprene 4301 is a linear block copolymer of styrene and butadiene, having 33% 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-4301 is used as compounding ingredient for adhesives, as impact modifier for plastics and as elastomeric modifier for asphalt mixtures used in paving and roofing.

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

APPLICATIONS:

Compounding ingredient for adhesives.

Plastic modifier.

Asphalt modifier.

Food contact goods.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
	Food Contact Acceptable		
	High Clarity		
	Linear Polymer Structure		
	Low Gel		
Uses	Porous		
	Adhesives		
	Asphalt Modification		
	Compounding		
Plastics Modification			
Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Crumb		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	< 1.0	g/10 min	ASTM D1238
Block Styrene <sup>1</sup>	> 31	%	
Solution Viscosity - 5.23% in toluene <sup>2</sup>	13	cSt	
Styrene Content	33	%	ASTM D5775
Volatile Matter	< 0.75	%	ASTM D5668
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	18.3	MPa	ASTM D412

Tensile Elongation (Break)	780	%	ASTM D412
NOTE			
1.	NM 202-07		
2.	NM 300-11		

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