

Description

Solprene 416 is a radial styrene/butadiene block copolymer having 30% of styrene content, most of it forming a polystyrene 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 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 pellet for easy handling and dissolution, packaged in standard paper bags, super sacs and cardboard boxes.

Technical data

Polymer Properties

	Test method	Value
Total Styrene, %	ASTM D5775	30
Block styrene, % min.	NM 202-07	28
Toluene Solution Viscosity (at 5.23% and 25°C), cSt	NM 300-11	11
Melt Flow Index (at 200°C and 5Kg), g/10min max.	ASTM D1238	0.5
Specific gravity, g/cm ³	ASTM D5296	0.94
Volatile Matter, % max.	ASTM D5668	0.75
Hardness, Shore A	ASTM D2240	78
Tensile strength, MPa	ASTM D412	17
300% modulus, MPa	ASTM D412	2.7
Elongation, %	ASTM D412	800

Applications

- Adhesives
- Compounding
- Asphalt/Bitumen
- Roofing
- Polymer modification

January, 2018