

Description

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 clear color.

Solprene 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.

Technical data

Polymer Properties

Toluene solution viscosity 5,23%,
Volatile matter, % max
Total styrene (on polymer), %
Block styrene, % min
Melt flow index, g/10'
Hardness, °Shore A
Tensile strength, MPa
300% modulus, MPa
Elongation, %

Test method	Value
NM 300-11	7
ASTM D5668	0.75
ASTM D5775	32
NM 202-07	31
ASTM D1238	8
ASTM D2240	69
ASTM D412	3.7
ASTM D412	1.2
ASTM D412	>1000

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Applications

- Adhesives.
- Asphalt/Bitumen.
- Roofing.