

Description

Solprene 5170X is a hybrid styrene/butadiene copolymer synthesized by solution polymerization. It has a butadiene/styrene monomer composition of 75/25 by weight percentage. Its structure combines SB thermoplastic di-block and random domains of styrene-butadiene.

Solprene 5170X has been designed to improve the rheological shear modulus on polymer-modified asphalt for paving, with low levels of viscosity; which permit to manage polymer concentrate lots; and on the other hand, polymer modified asphalt with better flow and handling. In addition, this polymer permit to get polymer modified asphalt emulsion for Chip seal application.

Due to its structure, Solprene 5170X improves the reinforcement on polymer modified asphalt applications similar to S-SBR but keeping lower polymer time dispersion and physical pellet form, as well as adherence, which is good for auto-adhesive roofing membranes.

This product can be used for solvent-based adhesives and hot melt adhesives giving high shear and adherence.

Technical data

Polymer Properties

	Test method	Value
Volatile matter, % max	ASTM D5668	0.75
Total styrene (on polymer), %	ASTM D5775	25
Block styrene, % min	NM 202-07	18
Color Apha, max.	NM 300-11	15
Toluene solution viscosity at 5.23%, cSt	ASTM D2240	10.8

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Applications

- Adhesives
- Polymer Modified Asphalt / Modified Bitumen

NEW PRODUCT DEVELOPMENT