

TECHNICAL DATA SHEET

POLIRTEC 4318

APPLICATION:

POLIRTEC 4318 is a linear block copolymer of styrene and butadiene used for reducing thermal susceptibility and increasing mechanical resistance of Hot Mix Asphalts.

POLIRTEC 4318 has 32% of styrene content, most of it forming a polystyrene block, which gives the polymer a thermoplastic behavior.

It also has a non-staining antioxidant system and it is essentially gel free with a clear color.

POLIRTEC 4318 is an excellent modifier for asphalt applications including self-adhesive roofing membrane and sealant.

DOSAGE AND APPLICATION CONDITIONS:

Dosage varies from 1% to 10% w/w on bitumen depending on the production application.

POLIRTEC 4318 is normally used to produce Polymer Modified Asphalt (PMB) and membranes and it is dispersed in the

bitumen using appropriate manufacturing equipment.

CHEMICAL FAMILY:

POLIRTEC 4318 is a linear block copolymer of styrene and butadiene, having 32% of styrene content.

STORAGE:

Store at room temperature in closed bags. Avoid moisture.

PACKAGE:

It is presented as free flowing porous crumb making easy its handling and dissolution or in micronized powder (in this case the product assumes the denomination **POLIRTEC 4318M**)

POLIRTEC 4318 is delivered in 750 kg big-bags or in self-melting plastic bags.

SAFETY:

Not dangerous (According to EEC Directives)

For further information see the Safety Sheet

PHYSICAL AND CHEMICAL PROPERTIES:

Properties	Test method	Value
Toluene solution viscosity 5,23%	NM 300-11	7
Volatile matter, % max	ASTM D5668	0.75
Total styrene (on polymer), %	ASTM D5775	32
Block styrene, % min	NM 202-07	31
Melt flow index, g/10'	ASTM D1238	8
Hardness, °Shore A	ASTM D2240	69
Tensile strength, MPa	ASTM D412	3.7
300% modulus, MPa	ASTM D412	1.2
Elongation, %	ASTM D412	>1000

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