SiSiB® PC6110S735

Modified Vinyltrimethoxysilane

Introduction

SiSiB® PC6110S735 is designed for the manufacture of crosslinked polyethylene low voltage & medium voltage power cables using the Monosil one-step process. It provides excellent performance on equipment designed for Monosil technology.

SiSiB® PC6110S735 is a mixture of Vinyltrimethoxysilane and processing aid, it contains:

- ☐ Silane
- ☐ Peroxide
- ☐ Antioxidant
- ☐ Metal Deactivator

Typical Physical Properties

Color	Colorless to yellowish
Appearance	Clear liquid
Flash Point	25°C
Density $_{25/25°C}$	0.985

Applications

SiSiB® PC6110S735 is a silane system used for the silane-crosslinking of polyethylene and ethylene copolymers in a one-step process.

SiSiB® PC6110S735 is used in process for the manufacturing of silane grafted compounds. The processing aid improves the processing properties. The melt viscosity will be reduced allowing higher output rates. The compounds made with SiSiB®PC6110S735 are mainly used for power cables and water pipes. The dramatic increase of heat and stress cracking resistance are the main reasons for the need to crosslink the polymers.

Process

Moisture content of the PE resin must be less than 200 ppm. In hot and humid countries pre-drying of the resin at 70°C by means of an air desiccator is highly recommended.

Grafting: Optimum addition levels for a given application must be determined

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experimentally. Suggest to start test with 1.3~2.0 wt%.

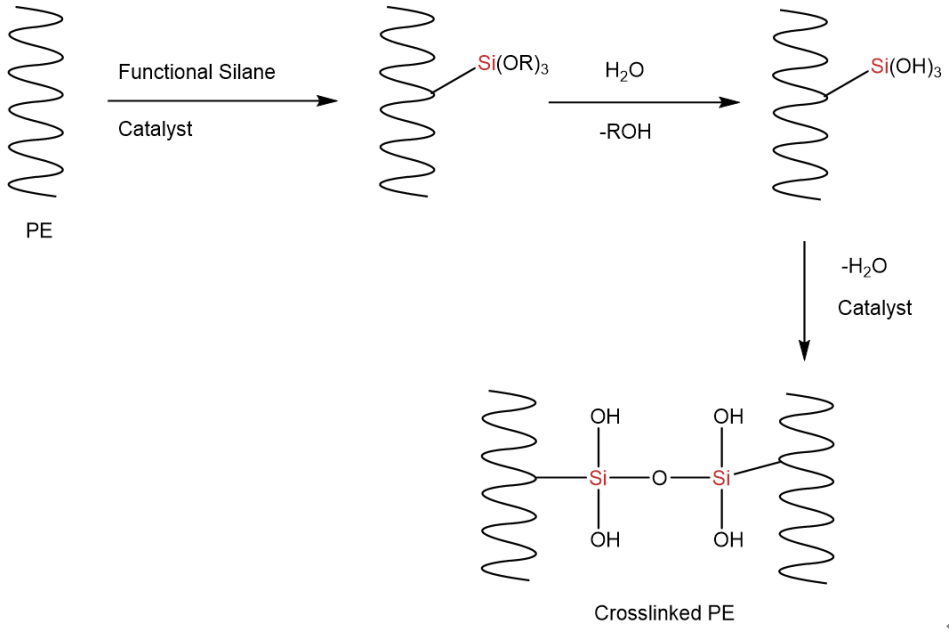
Temperature profile setting of the extruder:

☐	Barrel	150/150/150/170/190/200/210°C
☐	Head and die	210/280°C
☐	Screw	80 to 100°C

Crosslinking: Rate of cure is dependent upon time, temperature and thickness of the layer and available moisture. Sufficient crosslinking can be achieved by any of the following methods:

- ☐ Immersion in water at 80-90°C
- ☐ Exposure to low pressure steam at 105°C
- ☐ Exposure to steam at atmospheric pressure

Principal Reactions



Packing and Storage

SiSiB® PC6110S735 is supplied in 190Kg steel drum or 950Kg IBC container.

In the unopened original container SiSiB® PC6110S735 has a shelf life of one year in a

dry and cool place.

Notes

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: support@SiSiB.com.