Fainplast compounds

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TECHNICAL INFORMATION

HALOGEN FREE COMPOUNDS

CAT 107B/UV

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CATALYST MASTERBATCH WITH MEDIUM REACTIVITY AND HIGH STABILIZATION FOR THE CROSSLINKING OF SILANE GRAFTED HALOGEN FREE COMPOUNDS, TO BE USED IN CABLE APPLICATIONS

Description

This cross-linking catalyst master batch is made on a polyolefin matrix, with the presence of a mix of antioxidants, a UV stabiliser and a metal deactivator. All these additives protect polymers from oxidative damage and ensure long term properties of the finished crosslinked compound.

Property	Test method	Unit	Typical Value
Density	ISO 1183	gr/cm^3	0.95

Processing

3-5% of catalyst is dry blended to a silane grafted compound in a traditional single screw extrusion process. The optimum extrusion conditions will generally depend on the type of screw, processing speed and wall thickness required, but it is important to avoid overheating as this may lead to pre-scorching.

The extrudate is most of the time cooled down into a water bath which provides the moisture necessary for crosslinking. The reaction is fast but diffusion of moisture in the material is a limiting factor. For this reason, hot water bath or low pressure steam autoclave are often used to speed up crosslinking.

Storage

The catalyst compound must be stored at ambient temperature (not exceeding 30°C) in closed and unbroken bags, in order to avoid exposure to sunlight and water absorption.

Packaging

CAT 107B/UV is available in 20 Kg PE bags.
Our technical service is at your disposal, for further information and assistance.

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