

## TECHNICAL INFORMATION



# CAT 113/UV

January 2024

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 stabilizer and a metal deactivator. All these additives protect polymers from oxidative damage and ensure long term properties of the finished crosslinked compound.

### Technical characteristics

Property	Test method	Unit	Typical Value
Density	ISO 1183	g/cm <sup>3</sup>	0.95

### Processing

5-7 % 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 sauna 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. It is suggested to use the product within 12 months from the production date.

### Packaging

Available in 20 Kg PE bags.

Our technical service is at your disposal, for further information and assistance.

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