

mica tapes

Cablosam® AP - PPE110 (315.64-14)

- ▶ Based on phlogopite Samica®
- ▶ Ideal to process on high speed machines without delamination
- ▶ Polyethylene support
- ▶ High breakdown voltage
- ▶ All purpose version

General description

Cablosam® AP-PPE110 is a flexible Phlogopite Samica® tape impregnated with a halogen free resin and reinforced with a Polyethelene film.

Application

Cablosam® polyethelene film backed grades have been developed as a key component of the electrical insulation system of fire resistant and fire survival cables.

Under extreme fire conditions Cablosam® converts to a fused insulating coating providing a flame and heat barrier, whilst maintaining circuit integrity.

Main characteristics

Cablosam® grades are very flexible, and may be applied at high speed permitting economic production of insulated strand.

All Cablosam® products are entirely halogen free, nor do they contain any phosphorous, sulphur or heavy metals and present no environmental problems following exposure to fire.

Cables containing Cablosam® as a vital component of the insulation of fire survival cables, are known to meet fire test requirements to all international standards. e.g. IEC 60331, BS 6387, BS 8434, DIN 4102, EN 50200, NEK 606

Processing

Cablosam® tapes are most often applied at high speed onto the bare wire strand always with the Polyethylene film to the outside after application.

	Value	Test norm
Mechanical properties		
Stiffness	N/m	≤60
Tensile strength	N/cm	≥80
Dimensions		
Thickness	mm	0.11 ± 0.02
Weight		
Total weight	g/m ²	160 ± 13
Mica paper	g/m ²	120 ± 6
Bonding agent	g/m ²	16 ± 4
Polyethylene Film	g/m ²	24 ± 3
Electrical properties		
Breakdown voltage	kV	≥6
Shelf life		
Min. shelf life at 20 ± 5°C	Month	12

The extent of the overlapping (registration) and the total amount of mica Samica® is selected according to the requirements of the particular fire test and the choice of the other insulation materials within the cable.

Packaging

Cablosam® grades can be supplied as pads or cross wound spools as from 8mm wide. The lengths and dimensions can vary at customer request

For pads the most used lengths range from 500 to 1 000m. For cross wound spools the length can be as much as 30 000m. The standard inside diameter used for Cablosam® cores is 76mm.

Health and safety

Cablosam® is non toxic. We recommend however, that good hygiene practices, including hand washing and the use of barrier and cleansing creams is adopted.

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