

PIB SELF AMALGAMATING TAPES

**DESCRIPTION:**

Polyisobutylene rubber-based self-amalgamating tape.

COLOUR:

Black.

APPLICATION:

Suitable to joint and repair a wide range of system and power cables up to 46 KV. It is used on a large scale by postal and telephone Authorities together with PVC tape to seal polyethylene coupling sleeves of both overhead and underground telephone cables. It can also be used on metal pipes as a corrosion proofing protection.

CHARACTERISTICS:

Good physical and electrical properties. The electrical properties show a high degree of stability under all conditions of use. The tape amalgamates rapidly when applied under stretch (as described in section "Application"), and allows a air-free binding without the need of external heat or pressure. These tapes are compatible with a wide range of plastic materials, or rubbers used for cables insulation like for example: polyethylene, EPR, PVC, butyl rubber, neoprene and many others.

The tapes are divided with a plastic film easy to remove, they don't tack and are easy to handle and apply. The tapes are highly resistant to prolonged immersion in water and have an excellent resistance to ozone. Moreover, they are compatible with the most part of hot compounds, which are used in the electrical joint boxes. Melt temperatures up to 145 °C do not damage the tapes which are also compatible with acrylic and epoxidic resins. Self-amalgamating tapes have a blocking point, in fact it is more difficult to be stretched up over a determined limit to avoid an excessive extension or a breaking during the application.

NOTES:

The tapes do not resist to petroleum solvents, consequently we advise You against the contact with oil transformers or with oils used like impregnated in the paper for cables, as this will cause a softening of the tapes.

PROCEDURE OF APPLICATION:

Remove the separation stripe and stretch the tape until its width is reduced to 2/3 or 1/2. Keep stretching the tape lightly and wind it up overlapping 50 % two following turns, until you obtain the requested thickness. The high stretch degree prevents from air pocket formation and ensures a rapid amalgamation.



TECHNICAL DATA:

	TEST METHOD	
Standard length		9,15 m
Standard width		19 – 25 – 50 mm
Thickness		0,50 – 0,75 mm
Tensile strength	ASTM D 412:75	2,0 MN/m ²
Ultimate elongation	ASTM D 412:75	600 %
Absorbing humidity	ASTM D 570:63	0,40 %
	(saturation absorbing)	
Possibility of electrolytic corrosion	BS 3924:78	none
Flammability		Similar to those of polyethylene
Ozone resistance	ASTM D 1373:170	Excellent
Weatherproof resistance		No degradation after 1.800 hours in xeno-test N. 150 using a veterometro (90% UR 15 - 25 °C)
Dielectric strength	ASTM D 149:64	40 Kv/mm (test of the short period)
Dielectric constant	ASTM D 150:74	2,5 (50 Hz)
Power factor	ASTM D 150:74	0,0014 (50 Hz)
Total resistance	ASTM D 257	10 ¹³ ohm/m
Working temperature		-40 ÷ +90 °C (with picks of 100 °C)

DURATION:

The estimated life of the tape exposed to atmospheric agents in GB is of several years. Indoors, like for examples in the cables, the estimated life is at least the same of those of the cables. When the tape can be subject to abrasion or take contact with particular aggressive areas, a covering with PVC tapes is suggested.

STORAGE:

The rolls of the tapes must be stored flat in their original boxes and must be protected from dust, heat, moisture, direct sunlight, corrosive agents and solvent steams. Under these conditions the storage of the product is about 2 years.

PRODUCT TEST:

Users are advised to try the tape to its adaptability to particular applications.

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