

- Easily conformable, it fits every special shape.
- Not sticky, user friendly.
- Good physical and electrical properties.

DESCRIPTION

Conformable, self-amalgamating tape based on polyisobutylene (PIB).

The tape is interleaved with an easy to remove plastic film. Non tacky and easy to handle and apply. Model 14003/PIB is highly resistant to prolonged immersion in water and have excellent resistance to ozone.

Compatible with epoxy and acrylic resin systems. 2501 and 2504 will remove cleanly from most surfaces when cut, allowing them to be used as a temporary insulation/protection.

They have a "locking point", i.e. they become more difficult to stretch at very high elongations, preventing overstretching or breaking during application.

The tapes are not resistant to petroleum type solvents. They should not be used in contact with transformer oils or the oils used in paper cable impregnates as these will cause softening of the tapes.



TYPICAL APPLICATIONS

In combination with RACI's HDPE spacers, as anti-slid tape: in case of plastic carrier pipe (PVC, PE and similar) or 3ply PE coated steel pipe, it is suggested to apply this tape on the contact area between the ring and the carrier pipe, in order to avoid any horizontal sliding of the rings on the carrier pipe during the inserting operations.

For protection against corrosion on, for example, metal pipe-work (particularly at welds or joins) and waterproofing of many electrical components.

For jointing (splicing) and repair of a wide range of power and distribution cables up to 42 kV.

Model 14003/PIB is used on a large scale by Postal and Telephone Authorities in conjunction with PVC tape (model 14004) for making watertight seals at polyethylene sleeve joints on polyethylene-sleeved telephone cables, both above and below ground. The electrical properties show a high degree of stability under conditions of use. The tapes amalgamate rapidly when applied under tension (as described in 'Application' Section) to provide a void-free homogenous wrapping, without the need for external heat or pressure. They are compatible with a wide range of rubber and plastic dielectrical cable insulation. These include polyethylene, cross-linked polyethylene, ethylene propylene rubber, PVC, butyl, neoprene and many others.

APPLICATION

Remove dirt, grease, dust. The surface has to be mechanically cleaned by a metal brush.

Strip back the interleaving and stretch the tape to reduce its width by between one third and one half. Keep the tape under tension and wrap, overlapping successive layers by 50% until the desired build-up of insulation is achieved. Finish the wrapping by holding the tape under thumb and snap by stretching. The high degree of stretch as described above will prevent the inclusion of voids and ensure rapid amalgamation.

Product Testing: Users are recommended to test the tape for its suitability in their particular application.

TECHNICAL FEATURES

Properties	Standard	u.m.	Value
Total thickness	ASTM D 1000	mm	0.5
Tensile strength	ASTM D 1000	MPa	2.2
Elongation at break	ASTM D 1000	%	450
Dielectric strength	ASTM D 149	kV/mm	42
Volume resistivity	-	Ohm/cm	$>10^{14}$
Ozone resistance	-	-	Excellent
Weathering resistance	-	-	Very good
Working temperature	-	°C	-40 ÷ +90

STORAGE

The rolls of tape must be stored flat on their cut edges in the original packing until required for use, and must be protected from dust, heat, moisture, direct sunlight, corrosive and solvent fumes. Under these conditions the storage life of the tape in a temperature climate will be not less than five years.

PACKAGING

Standard length	10 m
Standard height	50mm – 100 mm - 150 mm