

Electrical Tapes

Product Nitto PVC 228

General Description

Nitto PVC 228 is a PVC tape consisting of a pure PVC carrier coated with a rubber based pressure sensitive adhesive.

The PVC tape is certified according to EN 60454 (VDE) for electrical insulation applications at temperatures up to 105 °C.

Classification: IEC 60454-3-1-10 / F-PVCp / 105

Construction



- Pressure sensitive rubber based adhesive
- Primer
- Plasticized PVC film

Characteristics

Nitto PVC 228 is a genuine “soft” tape. No fillers of any kind are used during the production of the PVC tape to guarantee supreme flexibility.

A good balance between adhesion strength, unwind force and film flexibility gives easy handling and perfect sealing properties. This avoids water penetration and increases chemical and electrical resistance as well as bending properties.

The PVC tape is suited for electrical insulation and high voltage applications.

The PVC tape has excellent flame retarding properties.

The tape is furthermore resistant to acids and alkalines.

Application

Nitto PVC 228 is an ideal product for electrical insulation, protection and holding of high voltage electrical appliances. It is used in the telecom field for splicing and termination of wires and cables, colour code identification, wire harnessing and general purpose.

Precautions

All products manufactured by NITTO EUROPE NV are guaranteed to be free from defect at the time of shipping when tested according to NITTO EUROPE NV product specifications. Properties of the products are susceptible to change due to various influences such as composition and condition of the substrate, impurities in or on the substrate, temperature and humidity of storage and the surrounding environment during application etc. When the NITTO product is used in combination with other material, the user shall assure by his own tests the compatibility of the NITTO product in the resulting combination and whether the combination results in the expected performance.

Features

- pure plasticized PVC
- no fillers
- non-sticking side treatment
- excellent elongation
- excellent relaxation
- flame retardant
- no flagging
- free from lead compounds

Packaging and Storage

The product should be protected against direct sunlight and extremes in temperature and humidity and stored upright in its original packaging. Once removed from its packaging, it should be protected against dust and other impurities.

Test methods and results

The properties of these products are determined in accordance with NITTO test methods. Detailed description of these methods are available on request. The above figures are average values, established to our best knowledge, but not to be used for specification purpose.

Properties

Film type	Plasticized PVC film	
Adhesive type	Synthetic rubber based adhesive	
Total thickness	0,19 mm	
Tensile strength at break	175 N/10 mm ²	63 N/19 mm
Elongation at break	160%	
Adhesion to 2B steel	2,65 N/10 mm	500 cN/19 mm
Adhesion to backing	3,50 N/10 mm	665 cN/19 mm
Electrical strength	50 kV/mm	9,5 kV
Electrical insulation resistance	10 ¹³ Ohm/25 mm	
Minimum application temperature	-10 °C	
Maximum operating temperature	+90 °C	

All tests are performed according to Nitto Europe NV test methods based on IEC 60454-2 and all values are nominal indications.

Availability

Colours: black, blue, green, red, grey, yellow, yellow-green, white, brown, light blue
Widths: 15, 19, 25, 30, 38 and 50 mm
Lengths: 10 and 20 m
Core diameter: 31,5 mm

Application Guidelines

- For optimal application conditions, we advise you to keep the roll at room temperature before applying.
- Cover the surface with an overlap of minimum 50% for harnessing applications.