



4000 Plyseal[®] V

Insulating Mastic (Vinyl Backed)

PERMANENTLY SEAL & INSULATE SUB-SURFACE AND OVERHEAD LOW VOLTAGE ELECTRICAL CONNECTIONS

Technical Data Sheet

October 2017

Description and Features

4000 Plyseal-V is an insulating mastic with vinyl backing that provides the superior adhesion and dielectric strength required to seal and insulate electrical connections from buried, submerged or overhead cables up to 1000 volts. The vinyl backing adds mechanical strength and is resistant to UV rays. It is impermeable to ozone, water, soil dirt and corrosive chemicals. 4000 Plyseal-V adheres quickly and permanently and will not adversely affect the insulation or the conductive polymer shielding.

- Available in roll or pad form
- Vinyl backing
- UV resistant
- High dielectric strength
- Superior adhesion to metal, cable insulations and jackets
- Excludes moisture, may be direct buried or submerged

Materials

Backing
Vinyl

Adhesive
Mastic

Color
Black

Standard Sizes

Width x Length
102 mm x 3 m (4 in. x 10 ft.)
102 mm x 165 mm (4 in. x 6.5 in.)
Other sizes available upon request

Technical Properties

Characteristic

Thickness (mm)
Operating temperature (°C)
Continuous
Emergency overload
Water absorption (%)
Copper corrosion (visual)
Ozone resistance (visual)
UV Resistance
Dielectric strength (kV/mm) ¹
Dielectric constant
Dissipation factor
Volume resistivity (Ω.cm)

Typical Value

3,28
90
130
0,10
None
Pass
Pass
20
3,2
0,025
1x10¹⁵

Test Method

ASTM D 4325
ASTM D 4325
ASTM D 4325
ASTM D 570
ASTM D 69
ASTM D 4325
ASTM D 4325
ASTM D 149
ASTM D 150
ASTM D 150
ASTM D 257

¹ 20kV/mm or 500V/mil when tested on a 0,51mm (0,20 in) thick specimen

Recommended Uses

For encapsulating and protecting direct buried low voltage connections and devices, terminations, overhead connectors, duct seals, and cable end seals. Ideal for covering molded joints on CN cables.

Storage

In original packaging, placed in horizontal position under cover and temperature between 5-35 °C.

Shelf Life

60 months from date of manufacture.

Information provided is for reference only. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use

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