



# 5000 Bus Seal

## Insulating Mastic (EPR-Backed)

HIGH VOLTAGE INSULATION FOR SWITCHGEAR BUS CONECTIONS AND MOLDED JOINTS

Technical Data Sheet

October 2017

### Description and Features

**Plymouth 5000 Bus-Seal** is a laminate of W963 Plysafe® EPR High Voltage Tape and 10 Plyseal® Insulating Mastic in a roll form. A one-pass application of this laminate provides high dielectric strength, instant adhesion and excellent conformability. Eliminates the necessity of multiple applications of different tapes and compounds.

- Good electrical properties
- Superior adhesion to the metal
- Superior adhesion to pre-insulated bus
- UV resistant
- Moisture, corrosion and chemical resistant
- For direct burial

### Materials

**Backing**  
EPR

**Adhesive**  
Mastic

**Color**  
Black

### Standard Size

Width x Length  
102 mm x 3 m (4 in. x 10 ft.)  
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) <sup>1</sup>  
Dielectric constant  
Dissipation factor  
Volume resistivity (Ω.cm)

#### Typical Value

3,90  
  
90  
130  
0,10  
None  
Pass  
Pass  
20  
3,2  
0,025  
1x10<sup>15</sup>

#### 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

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

### Recommended Uses

For insulating and water proofing high voltage bus conductors, connectors, equipment lugs, bushings, and insulation continuity of pre-insulated bus. An excellent moisture seal and corrosion protection for junction boxes, bus-duct and cable tray joints. Outer jacket for direct buried high voltages splices. Ideal for covering molded joints on jacketed CN cable.

### Storage

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