

## Scotch® 2200, 2210 Vinyl Mastic Pads and Rolls

**Data Sheet** 



#### **Product Description**

Scotch Brand 2200 Pads and 2210 Rolls are selffusing, rubber based insulating compounds laminated to a flexible, all-weather grade vinyl (PVC) backing. These tape rolls and pre-cut pads are designed to insulate, moisture-seal and pad all connections up to 600 volts, and have excellent resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including sunlight).

#### **Product Features**

- Polyvinyl chloride (PVC) backing.
- Compatible Rubber Mastic.
- Flexible over wide range of temperatures.
- ❖ Highly resistant to ultraviolet light.
- Easily installed to provide maximum protection.
- Compatible with all common solid dielectric cable insulation.
- Usable for indoor or outdoor applications.

#### **Applications**

(600V maximum)

- Bolted connections.
- Service drops.
- \* Traffic signal wire connections.
- Lighting connections.
- Transformer bushing protection.
- Padding bolted connections on bus bar.
- Grounding rod connection protection.
- Terminal protection.
- ❖ Cable end sealing.
- Secondary compression connections.

### **Data – Average Properties**

#### Backing

# Composition – All weather polyvinyl chloride (PVC) plastic.

Colour Black
Thickness ASTM-D1000 0.18mm
Breaking Strength ASTM-D1000

35.3N/10mm

Elongation ASTM-D1000

200%

### **Mastic**

# Composition – Highly stable synthetic elastomers and resins.

Thickness ASTM-D1000

 Pad
 3mm

 Roll
 19mm
 0.635mm

 38mm
 0.635mm

 101mm
 1.0mm

### **Composite (Backing and Mastic)**

Thickness ASTM-D1000

Pad 3.2mm
Roll 19mm 0.815mm
39mm 0.815mm
101mm 1.18mm

Adhesion to Steel

ASTM-D1000 22N/10mm width

Adhesion to Polyethylene

ASTM-D1000 22N/10mm width

Dielectric Strength

ASTM-D1000 11kV/mm

Insulation Resistance

ASTM-D257 >1,000,000 Megohms

Water Absorption

ASTM-D570 75%



**Data Sheet** 

#### **Specifications**

#### **Product**

The insulation is a composite of an all-weather polyvinyl chloride (PVC) backing and a thick rubber based, pressure-sensitive adhesive. The product must be applicable at temperatures ranging from -18°C (0°F) to 38°C (100°F) without loss of physical or electrical properties.

The product must not degrade when exposed to various indoor or outdoor environments. It must also be compatible with all synthetic cable insulations and jointing compounds. When used in junction boxes, cable trays or gutters, connectors shall be over wrapped with at least one-half lapped layer of glass cloth tape or varnished cambric tape before applying the product. Or, the entire product build-up shall be over wrapped with two halflapped layers of an adhesive-coated cloth tape. Where use involves direct burial or continuous submersion in water, the product shall be over wrapped with a minimum of two half-lapped layers of plastic electrical tape.

#### **Engineering/Architectural Specification**

All splices for 600-volt wire rated at 80°C (176°F) and below shall be insulated with "Scotch" Brand 2200 Pad or 2210 Roll. The Vinyl Mastic shall be protected from sharp edges and external pressure from heavy objects by at least a one-half lapped layer of Scotch Brand 27 or 69 Glass Cloth Tape, or Scotch 2510 Varnished Cambric Tape before applying Scotch Vinyl Mastic. Or over wrap the entire Vinyl Mastic build-up with two half-lapped layers of an adhesive-coated cloth tape. When directly buried or submerged in water, splices shall be over wrapped with a minimum of two half-lapped layers of Scotch Super 33+ or Super 88 Vinyl Plastic Electrical Tape.

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**Electrical Markets Division** 3M United Kingdom PLC Sales Office PO Box 393

Bedford MK41 0YE Telephone: 0870 609 4639 Fax: 01234 229 433

3M Ireland Ltd Sales Office

The Iveagh Building, The Park, Carrickmines, Dublin 18, Ireland Telephone: (01) 800 812 732 Fax: 353 1 280 3509

3M United Kingdom PLC **Head Office** 

3M Centre, Cain Road Bracknell, Berkshire RG12 8HT Telephone: 01344 858 000

Fax: 01344 858 758