

## Scapa 2527

### High Permittivity Stress Control Tape - 1.0mm

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#### DESCRIPTION

Scapa 2527 is a high permittivity, stress control elastomeric tape. Its colour is grey. The product is printed with the words Caution High K

#### APPLICATIONS

- For electrical stress control in all forms of joints and terminations for medium voltage polymeric cables.

#### PRODUCT BENEFITS

- Supplied in an easy to handle and apply tape form. The product is interleaved with a disposable plastic liner.
- Service temperature:  $-40$  to  $+100^{\circ}\text{C}$ , Overload temperature  $120^{\circ}\text{C}$ .
- The same size coil of tape can be used in joints and terminations over a range of cable sizes and types.
- The joint or termination can be made rapidly by using a tape rather than a stress cone construction to control electrical stress.
- Particularly beneficial in jointing newly designed medium voltage cables that have reduced insulation thickness.
- Allows more compact joints and terminations.
- Can flow in minutes into cracks formed during cable preparation.
- High permittivity characteristics of the provide effective stress control in all types of joints and terminations for medium voltage polymeric cables.
- The tape amalgamates rapidly when applied under tension to provide a void-free homogeneous wrapping, without the need for external heat or pressure.
- Exceptionally well balanced electrical and mechanical properties, which show a high degree of stability under conditions of use.

## TECHNICAL PROPERTIES

| Technical Property    | Nominal Value        | Unit  | Test Method |
|-----------------------|----------------------|-------|-------------|
| Dielectric Constant   | 10                   | -     | ASTM D150   |
| Dielectric Loss Angle | 0.03                 | -     | ASTM D150   |
| Elongation at Break   | 1000                 | %     | BS 903      |
| Tensile Strength      | 2                    | MPa   | BS 903      |
| Thickness             | 1                    | mm    | -           |
| Volume Resistivity    | 5 x 10 <sup>11</sup> | Ohm.m | ASTM D257   |

## STANDARD PRESENTATIONS

- Branding: Scapa
- Core: 38mm dense plastic
- Packaging: Individually shrink-wrapped rolls
- Roll Length: 1.6m, 2.5m, 3m, 5m, 6m
- Roll Width: 19mm, 25mm

## RECOMMENDATIONS

The tape is attacked and softened by petroleum type solvents and oils (including transformer oils and fluids used in oil-impregnated paper). In joints where these oils are used, care should be taken to avoid direct contact between the tape and the oil. These oils may significantly affect the electrical properties of the tape. The rolls should be stored flat on their cut edges in the original packaging. The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes. Storage temperature between +10°C and +30°C. Under these conditions, the storage life of the tape in a temperate climate will be at least five years.