



Filoflex is a low viscosity, semi-rigid two-part polyurethane resin, exhibiting high electrical strength, toughness and adhesion. It is designed for use as a cable jacket repair system for splicing and repairing of portable/flexible cables, and is particularly suitable for encapsulation of surface and subsea electrical connections.

## Features

- RoHS Compliant
- Non-toxic
- Low water absorption (0.3% 168 hours @ 23°C)
- High resistance to seawater
- Available in 250ml and 600ml Packs

## Specifications

| Properties                          | Unit                                  | Value    |
|-------------------------------------|---------------------------------------|----------|
| Gel Time (150g mass @ 25°C)         | Minutes                               | 20-30    |
| Water absorption (24 hours @ 23°C)  | %                                     | 0.09     |
| Water absorption (168 hours @ 23°C) | %                                     | 0.3      |
| Hardness                            | ShoreA                                | 85       |
| Tensile Strenth                     | Mpa                                   | 10       |
| Elongation at break                 | %                                     | 200      |
| Compressive Strength                | Mpa                                   | Flexible |
| Thermal conductivity                | W / m.K                               | 0.22     |
| Coefficient of thermal expansion    | ppm/°C                                | 75-100   |
| Operating temperature range         | °C (application & geometry dependant) |          |
| Maximum Service temperature         | °C (application & geometry dependant) | 130      |
| Volume resistivity                  | ohm.cm                                | 315      |
| Surface Resistivity                 | ohm.cm                                | 214      |
| Electric Strength                   | kV/mm                                 | 25       |
| Dielectric Constant                 | 100 Hz                                | 3.1      |
| Dielectric Constant                 | 1 kHz                                 | 3        |
| Dielectric Constant                 | 10 kHz                                | 3.7      |
| Dissipation Factor                  | 1 MH2                                 | 0.023    |

## Products

| Art.nr.      | Product Name     | Colour | Content | Order unit   |
|--------------|------------------|--------|---------|--------------|
| Filoflex 250 | Filoflex - 250ml | black  | 250ml   | 1 pcs/carton |
| Filoflex 600 | Filoflex - 600ml | black  | 600ml   | 1 pcs/carton |