

322-3670



## **GREMFLEX® FR**

### **TECHNICAL DATA SHEET**

#### **GREMFLEX FR : Expandable Sleeving with Flame Retarded Polyester Monofilaments**

This Tubular braided sleeving is made of Polyester PBT (Polybutylene terephthalate) monofilaments. The raw material used, is treated with non-burning agents and is rated VO by the Underwriters Laboratories (under 1,60 mm). **GREMFLEX FR** increases cut-through and abrasion resistance of both dielectric and thermal insulation surfaces.

This series is to use wherever flame resistance is required. It can be : Telecommunication, Underground, Aerospace, Automotive industry, and so on...

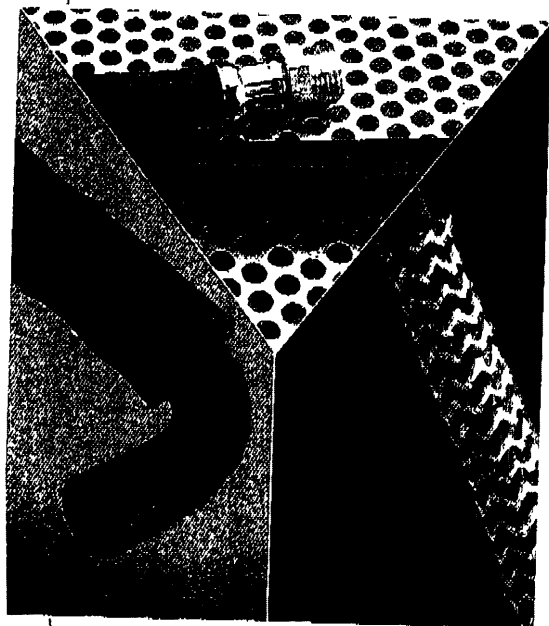
With a continuous working temperature up to 150°C and a resistance to most chemicals, **GREMFLEX FR** can be used in rough conditions. Its expansion ratio of 1:2 enables very easy covering over bundles of cables.

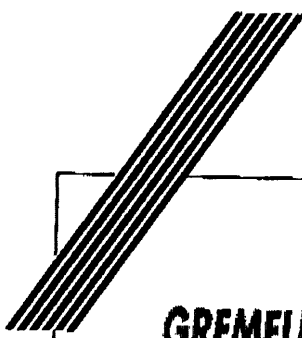
**Working temperature** - 50°C to +150°C

**Standard colours** Black sleeve with a Grey identification yarn.  
Grey sleeve with a Black identification yarn.

#### **Dimension Data**

| Nominal Diameter (mm) | Range of use advised | N° of Yarns | Weight Gr/100 m | Packaging Coils (M) |
|-----------------------|----------------------|-------------|-----------------|---------------------|
| 3                     | 2 to 5               | 60          | 400             | 100                 |
| 4                     | 3 to 7               | 72          | 490             | 100                 |
| 5                     | 4 to 9               | 84          | 580             | 100                 |
| 6                     | 5 to 11              | 96          | 660             | 100                 |
| 8                     | 7 to 13              | 120         | 810             | 100                 |
| 10                    | 9 to 15              | 144         | 1040            | 50                  |
| 12                    | 11 to 17             | 168         | 1160            | 50                  |
| 15                    | 13 to 20             | 192         | 1380            | 50                  |
| 20                    | 18 to 25             | 256         | 2000            | 50                  |
| 25                    | 22 to 30             | 288         | 2400            | 50                  |
| 30                    | 27 to 40             | 384         | 3160            | 50                  |
| 40                    | 35 to 50             | 480         | 4200            | 50                  |
| 50                    | 45 to 60             | 600         | 4900            | 50                  |





## **GREMFLEX® FR**

### **Technical Characteristics**

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#### **PROPERTIES**

|                             |                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| Monofilament                | Polyester PBT - Size 0,22 mm                                                                                        |
| Melting Point               | + 225°C                                                                                                             |
| Limiting Oxygen Index       | 34,7 % (NF G07-128)                                                                                                 |
| Maximum Working Temperature | 150°C                                                                                                               |
| Withstand Peaks             | 200°C                                                                                                               |
| Minimum Working temperature | -50°C                                                                                                               |
| Flame resistance            | Passes flame requirement of ISO 3795<br>and FMVSS 302<br>Passes FAR 25-853<br>I2 according to NF F16-101<br>VO-UL94 |
| Fumes Toxicity              | Comply with CET DEC 26-0611                                                                                         |
| Chemical Resistance         | Unaffected by most chemicals<br>(ask us for special environments)                                                   |

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#### **PACKAGING**

Coils fastened with ties under plastic wrapping and large spools are available.  
GREMFLEX FR can be cut in short lengths for production programs.  
Other packaging are also available upon request.

These figures are those of our standard GREMFLEX FR range. Please call us for special construction.

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Date: 19/3/2002

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Manufacturers of terminated expandable braided sleeving, heat shrinkable tubing and related products, foam insulating tube, adhesive and potting resins for a wide range of electrical wiring and fluid conveyance systems in the automotive, defence, aerospace, telecommunications, electrical/electronics, transportation, power distribution and leisure markets. We specialise in limited Fire hazard Products Systems. Registered in England No. 3666126. VAT No. 728 7059 08

## Reference :

Dear PBF FR 10 GY SOC

Data sheets attached

322.3670

Kind regards

**ANDY LLEWELLYN**Gremco UK Limited