# Exp Silicone Rubber Glass Sleeve

## ABOUT THIS PRODUCT

Made of silicone rubber coated fibreglass braid with a unique construction that allows the sleeve to expand up to 1.6 times its original size. This allows it to expand over awkward shapes and 'conform' itself to the profile of the part it is covering. This sleeving is often used as an alternative to heat shrink as it requires no heat or mechanical tools for installation; it simply slips over whatever shape you need to cover for a perfect performance fit.

***Please note**: Care should be taken to minimise dust formation during handling and cutting this glass based material as dust or broken particles may cause skin irritation.*
*Note: Standard colour: Black, White and Red-Brown*

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## FEATURES AND BENEFITS

- Good dielectric strength
- Halogen free
- Self-extinguishing (UL 1441 Self-extinguishing VW 1)
- Excellent resistance to oils, solvents, varnishes and aggressive chemical agents in general
- Highly flexible
- Expandable

## APPLICATIONS

- Component protection
- Harnessing
- Terminal protection
- Alternative to heat shrink in heat/flame sensitive applications

## MATERIAL DATA

| | |
|---|---|
| Product Code | 270 |
| Material | Silicone Rubber Coated Fibre Glass Braid |
| Standard Colour | Black |
| Expansion Ratio | 1:1.6 |
| Operating Temperature – ˚C | -40 – +235 (Peaks at +300˚C) |
| Dielectric Strength – kV | 4kV Normal<br>2.5kV Expanded |
| Relevant Specifications | UL1441, IEC 60684 Part 2 |

# TECHNICAL TABLE

| PROPERTY | TEST | Results |
|---|---|---|
| Heat Resistance | UL 1441:<br>• 7 days at 265˚C<br>• 1 hour at 300˚C | No cracking or detachment of coating shall be visible and the original colour shall be recognisable |
| Flammability | UL 1441 | Self-extinguishing VW1 |
| Cold Resistance | Bending at low temperature IEC 60684 Part 2 Clause 14 | After 1 hour at -40˚C there are no cracks |
| Chemical Properties | Simulation of real operating conditions | Resistance to oils, solvents, varnishes and aggressive chemical agents in general. |
| Chemical Resistance | After 96 h. at +100˚C in ASTM oil n.2 | Resistance to oils, solvents, varnishes and aggressive chemical agents in general |

| Nominal bore (mm) | Bore tolerance (mm) | Minimum Wall thickness (mm) | Standard Packaging (m) |
|---|---|---|---|
| 2 | + 0.20 | 0.65 | 200 |
| 3 | + 0.20 | 0.75 | 200 |
| 4 | + 0.30 | 0.75 | 200 |
| 6 | + 0.30 | 0.85 | 100 |
| 8 | + 0.30 | 1.00 | 100 |
| 10 | + 0.50 | 1.00 | 100 |
| 12 | + 0.50 | 1.00 | 50 |
| 14 | + 0.50 | 1.20 | 50 |
| 16 | + 1.00 | 1.20 | 50 |
| 18 | + 1.00 | 1.20 | 50 |
| 20 | + 1.00 | 1.30 | 25 |
| 22 | + 1.00 | 1.30 | 25 |
| 25 | + 1.00 | 1.30 | 25 |