

# flexible tapes

## Epoflex® 324.03

- ▶ Protection tape for VPI
- ▶ With Polyester shrinking threads
- ▶ Very flexible
- ▶ Ideal for complex forms
- ▶ Used for very high voltages

|                        |                  | Value       | Test norm   |
|------------------------|------------------|-------------|-------------|
| Thickness              | mm               | 0.09 ± 0.01 | IEC 60626-2 |
| Total weight           | g/m <sup>2</sup> | 76 ± 8      | IEC 60626-2 |
| Polyester/glass fabric | g/m <sup>2</sup> | 25 ± 3      | IEC 60626-2 |
| Polyester film         | g/m <sup>2</sup> | 28 ± 2      | IEC 60626-2 |
| Resin content          | g/m <sup>2</sup> | 23 ± 4      | IEC 60371-2 |
| Tensile strength       | N/cm             | ≥60         | IEC 60394-2 |
| Elongation             | %                | ≥20         | IEC 60394-2 |
| Schrinkage 2h at 70°C  | %                | ~1.0        | DIN 40634   |
| Schrinkage 2h at 120°C | %                | ~20         | DIN 40634   |
| Breakdown voltage      | kV               | ≥5.0        | IEC 60626-2 |
| Thermal class          |                  | F (155°C)   | IEC 60085   |

### General description

Epoflex® 324.03 is composed of a mix of shrink polyester and glass fabric, a polyester film and an already cured red-brown pigmented Epoxy resin.

### Application

Epoflex® 324.03 is used as final layer in the winding of electrical machines as a protection tape when using Vacuum Pressure Impregnation (VPI).

### Form of delivery

Epoflex® 324.03 tapes can be delivered in widths from 15mm on. Our assortment of cores satisfies the needs of manual and mechanical processing.

### Main characteristics

Epoflex® 324.03 shrinks under temperature, compressing the main wall insulating tapes. In this way the thermal and electrical properties of coils or bars can be considerably improved. At the same time this tape provides a substantial protection against moisture and environmental pollutants.

### Processing

Our advice is to apply the Epoflex® 324.03 tapes half lapped with the polyester film on the outside and the fabric on the inside touching the main insulation. This tape can be applied manually or with very fast modern winding machines.

During the hardening process the tape shrinks already at relatively low temperatures (120°C). The exact curing temperature depends on the VPI resin that is used.

### Health and safety

Epoflex® is non toxic. Nevertheless we recommend to follow any hygiene and safety standards while processing.

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