

# 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.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd. (underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.