Tonex®

Wear-resistant composite coating designed for specific CFRP roller applications

pronexos

Specialized high-performance composite coatings for CFRP rollers that are stronger, lighter and faster.

Tonex® has a very high wear-resistance which makes it an attractive choice. It is lighter than ceramic or metal alternatives and is easier to machine by lathe. Achieving a smooth or grooved surface on a carbon fibre tube is difficult, but with Tonex® it becomes a simple job to make fine adjustments to size and shape.

Composite coatings for CFRP rollers

Pronexos offers the capability to apply specialized high-performance coatings to carbon fibre rollers for a range of purposes and applications. These coatings offer beneficial properties including:

- High resistance to wear and abrasion of all web materials
- High hardness suitable for the application
- Resistance against corrosion by chemicals
- Available as conductive or insulated coating against electric current
- Machinable surfaces including patterns, grooving and other shapes
- Opportunity to further enhance the properties of the roller through application of thermal sprayed coating.
- Can be used as re-covering layer for rubber coating

When applied to CFRP rollers up to 6 metres in length these composite coatings can fulfil a wide range of industrial and mechanical requirements, providing roller solutions that are stronger, lighter and faster.

We recommend the use of solvents such as acetone or toluol for cleaning the surface.

Specifications

Roughness	Fine/smooth (Rz 5 – 12 µm) Standard (Rz < 25 µm) Un-machined
Colour	Black (standard) Grey Other colours upon customer request
Hardness	90 ± 5 Shore D
Minimum operating temperature Maximum operating temperature	-10 °C 140 °C
Standard wall thickness	1.5 mm
Maximum length	6000 mm
Maximum outer diameter	600 mm
Maximum weight	1000 kg
Maximum coating thickness	10 mm

For further information please visit our website or scan the QR-Code:

www.pronexos.com

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