

CARBON FIBER STRIP

Strengthening for Helicoid Epoxy Sleeve System.

Description

The Carbon Fiber Strip is designed for the Helicoid Epoxy Sleeve application. The physical properties allow its use in applications requiring high load tensile and hoop strength. The strip has a long working life and high resistance to chemical reaction.

Features

- Very high tensile strength and tensile modulus.
- High strength-to-weight ratio material thus making it ideal for application requiring low weight.
- Low thermal expansion.
- Corrosion and chemical resistance.
- Excellent durability – high flexural, tensile strengths and corrosion resistance ensure a long working life.
- Environmentally safe.

Typical Properties

Specific Gravity	1.67
Density	1750 kg/m ³
Flexural Strength (ASTM D 790)	1480 N/mm ²
Flexural Modulus (ASTM D 790)	89000 N/mm ²
Tensile Strength (ASTM D 3039)	1880 N/mm ²
Tensile Modulus (ASTM D 3039)	141000 N/mm ²
Elongation at Break (ASTM D 3039)	0.8 %
Poisson's Ratio (ASTM D3039)	0.34
Shear Strength (ASTM D5379)	75.5 N/mm ²
Coeff. of Thermal Exp. (ASTM D831)	-5.0 x 10 ⁻⁵ / C°
Glass Transition Temp. (ASTM D3418)	121° C



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Hazard Identification

Potential Health Effects

- Not considered to be a hazardous material under normal use.

Primary Route for Entry

- Inhalation; skin and eye contact of dust produced while cutting.

Ingestion

- Non-Toxic. Not likely route of exposure.

Skin Contact

- Possible irritation. Cleanse skin with mild soap and running water. Use a washcloth to help remove fibres. Do not rub or scratch affected areas. Never remove fibres with compressed air; rather, use vacuum equipment to remove fibres from clothing. Have access to safety showers and eye wash stations.

Eye Contact

- Flush eyes with running water for at least 15 minutes. Eye protection should consist of safety glasses, goggles or face shield.

Respiratory

- Move person to fresh air. Suspended airborne particles of dust of respirable size may be present when product is being cut. Wear a proper fitting respirator, such as a 3M 6000 series with dust filter while cutting. Use vacuum equipment to clean up product dust; avoid dry sweeping or using compressed air.



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