

FRMICA FP / COATED GLASS

FRMICA FP Coated Mica Tape

Premium mica tape for demanding fire-resistant cables

High-quality calcined phlogopite mica paper, non-alkaline glass fabric and silicone resin, with an inorganic coating over the glass backing.



0.13 / 0.16 mm
NOMINAL THICKNESS

5-1000 mm
AVAILABLE WIDTHS

>3.0 kV/layer
DIELECTRIC STRENGTH

>2500 rpm
HIGH-SPEED TAPING*

• PREMIUM COATED FIRE-PERFORMANCE MATERIAL

Coated backing for cleaner high-speed processing.

The white, paper-like inorganic coating covers the glass-fabric face. It helps contain glass fibres and reduce fraying, mica flaking and sticking during winding, supporting cleaner taping machines and consistent application at high speed.

Typical applications

For demanding **fire-resistant power, control, instrumentation and signalling cables**, especially where high-speed production and clean handling are priorities.

Typical uses include fire alarms, emergency lighting and essential circuits in hospitals, rail tunnels, public buildings and industrial installations.

Production efficiency and construction support

The coated backing provides a smoother taped-conductor surface and helps reduce loose-fibre problems during application. CTUK works directly with manufacturing and technical teams to select the grade and optimise wrapping geometry, material use and total acquisition cost.

Technical support is provided at no extra cost. The selected grade and construction must meet the required finished-cable fire performance.

Performance advantages

Inorganic coated backing

White coating covers the glass fabric and helps contain fibres.

Reduced fibre fraying

Helps limit loose glass fibres in taping equipment.

Less mica flaking

Supports clean handling and consistent tape application.

High-speed processing

Designed for taping above 2500 rpm with suitable setup.*

Smooth conductor finish

Coated surface improves the finish after wrapping.

High dielectric strength

Both grades specify >3.0 kV per layer.

WIDTH

5-1000 mm

Custom slit widths on request

CORE IDS

76 mm

Standard core option

WINDING

Pads and spools

Traverse and wound spools available

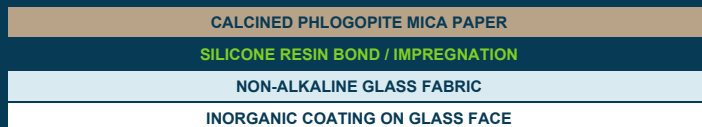
*Processing above 2500 rpm is stated in the CTUK product specification. Achievable speed depends on machine setup, tape tension, conductor size and overlap.

Technical data

FRMICA FP / FP90G28 and FP120G28

Coated single-side glass construction

Functional layers shown schematically - not to scale



Bronze mica face

Heat-resistant dielectric barrier around the conductor.

White coated reverse

Paper-like inorganic coating over the glass reinforcement.

PHYSICAL AND ELECTRICAL PROPERTIES

PROPERTY	UNIT	FP90G28	FP120G28	TEST METHOD
Nominal thickness	mm	0.130 ±0.02	0.160 ±0.02	IEC 60371-2
Total substance	g/m ²	180 ±15	215 ±15	IEC 60371-2
Mica content	g/m ²	90 ±5	120 ±5	IEC 60371-2
Tensile strength	N/cm	>80	>120	IEC 60371-2
Dielectric strength	kV/layer	>3.0	>3.0	IEC 60371-2

FIRE-PERFORMANCE APPLICATIONS

IEC 60331 | GB/T 19216.31 | BS 6387

EN 50200 | AS/NZS 3013

For cable constructions targeting these fire-test standards. Performance must be verified on the complete cable.

Temperature rating

950-1050 °C

This temperature rating does not guarantee finished-cable performance.

Processing guidance

Select winding direction and application settings to suit the coated-glass face and the cable construction. Control tape tension and overlap, and validate the chosen speed on the production line. Pads, traverse spools and wound spools are available.

SUPPLY AND GRADE SELECTION

Width: 5-1000 mm | Core ID: 76 mm

FP90G28: 0.130 mm nominal | FP120G28: 0.160 mm nominal

Custom sizes, slit widths and winding styles available on request.