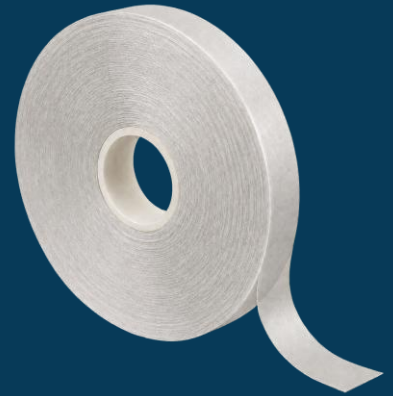


PCM5461-G

Calcined Muscovite Mica Tape (PCM5461G)

Designed for fire-resistant cables

Calcined muscovite mica paper bonded to non-alkaline glass fabric with high-temperature resistant silicone resin.



0.10-0.14 mm
THICKNESS RANGE

4-1000 mm
AVAILABLE WIDTHS

>1.0 kV/layer
DIELECTRIC STRENGTH

IEC 60331
FIRE TEST

• **DESIGNED FOR CRITICAL CIRCUITS**

Maintain circuit integrity when it matters

PCM5461-G is a high-performance mica tape designed for the manufacture of fire-resistant wires and cables. Its calcined muscovite construction provides reliable electrical insulation, thermal stability, mechanical strength and flexibility.

Typical applications

Ideal for fire-resistant cables used in public buildings, oil and gas facilities, railway tunnels, industrial plants and military installations. PCM5461-G is suited to life-safety and essential-services cabling, including fire alarm, emergency lighting, evacuation and emergency power circuits, where circuit integrity must be maintained during fire exposure. Also suitable for cable constructions operating in high-temperature or otherwise demanding environments.

High-speed taping performance

PCM5461-G combines high tensile strength with excellent flexibility, allowing smooth, consistent application on standard vertical and longitudinal taping equipment. Its construction is designed to withstand the demands of high-speed processing, supporting taping speeds of up to 2,000 rpm when equipment setup, tension and overlap are correctly controlled.

The tape lays flat around the conductor with reliable conformity and reduced risk of cracking or breakage, helping maintain stable production at speed across a range of cable sizes and constructions.

Performance advantages

High dielectric strength

Reliable insulation in every thickness

Proven fire performance

Supports circuit integrity during fire

Production-ready

Suitable for high-speed vertical or longitudinal taping

Chemical resistance

Resistant to radiation, acids and alkalis

HALOGEN-FREE / FREE FROM TOXIC GASES

WIDTH

4-1000 mm

Custom slit widths on request

CORE IDS

52 / 54 / 76 / 101 / 120 mm

Standard core options

WINDING

Pads or spools

Various dimensions available to customer request

Technical data

Muscovite mica tape / four standard thickness variants

PCM5461-G construction

Mica paper bonded to glass fabric with silicone resin

CALCINED MUSCOVITE MICA PAPER

SILICONE RESIN BOND / IMPREGNATION

NON-ALKALINE GLASS FABRIC

Fire endurance

Supports circuit integrity during fire exposure

Electrical insulation

High dielectric strength across all thickness variants

Production compatibility

Suitable for high-speed taping and extrusion processes

• PHYSICAL AND ELECTRICAL PROPERTIES

Specification by nominal thickness

TYPE: PCM5461-G

PROPERTY	UNIT	0.10 mm	0.11 mm	0.125 mm	0.14 mm
Total substance	g/m ²	128 ±10	148 ±10	183 ±10	216 ±14
Mica content	g/m ²	75 ±5	85 ±5	120 ±5	167 ±8
Glass content	g/m ²	24 ±2	34 ±2	34 ±2	34 ±2
Binder content	g/m ²	29 ±3	29 ±3	29 ±3	29 ±4
Dielectric strength	kV/layer	>1	>1.2	>1.2	>1.2
Tensile strength	N/cm	>100	>120	>120	>120
Thermal conductivity	W/m°C	0.2-0.25	0.2-0.25	0.2-0.25	0.2-0.25

FIRE RESISTANCE STANDARDS

PASS - IEC 60331:1999

Flame resistance test

COMPLIANCE

IEC 60331 / BS 6387 CWZ
GB/T 19216