



Packing

Tapes are packed in airtight mechanically strong boxes protecting them from dirt, dust and moisture. The packaging also ensures safe transit and storage.

Storage : 12 months at 20° C

TECHNICAL DATA : GMCAB TAPES

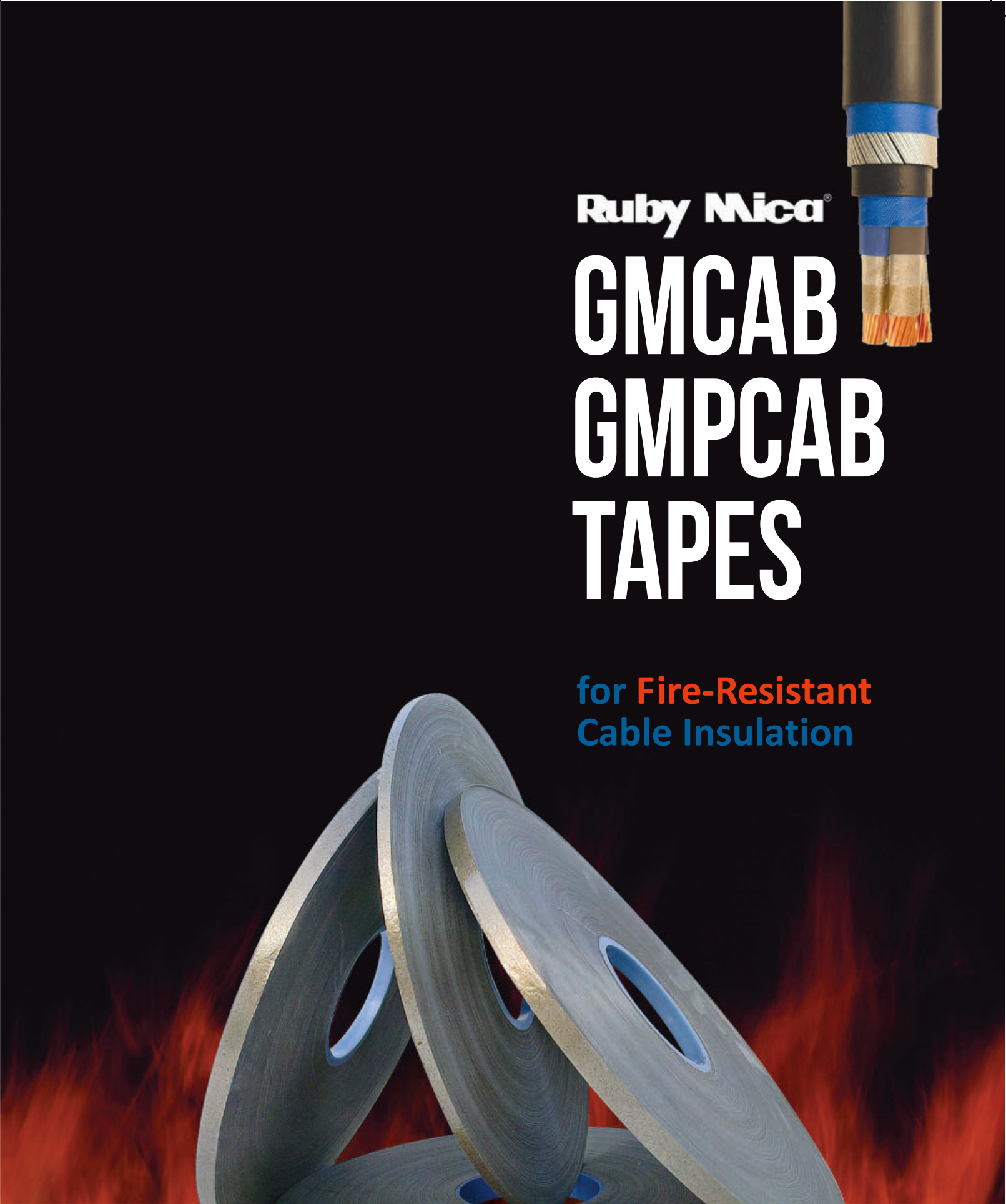
| Properties | Test Method | Unit | Value | Value | Value | Value |
|--------------------|---------------|------------------|-------------|-------------|-------------|-------------|
| Total Substance | IEC 60371 - 2 | g/m ² | 121 ± 10 | 134 ± 10 | 175 ± 15 | 222 ± 16 |
| Mica Paper | IEC 60371 - 2 | g/m ² | 80 ± 5 | 80 ± 5 | 120 ± 9 | 160 ± 10 |
| Glass Content | IEC 60371 - 2 | g/m ² | 23 ± 3 | 34 ± 3 | 34 ± 3 | 34 ± 3 |
| Resin Content | IEC 60371 - 2 | g/m ² | 18 ± 2 | 20 ± 2 | 21 ± 3 | 28 ± 3 |
| Nominal Thickness | IEC 60371 - 2 | mm | 0.09 ± 0.01 | 0.10 ± 0.01 | 0.12 ± 0.01 | 0.14 ± 0.01 |
| Tensile Strength | IEC 60371 - 2 | N/cm | >120 | >120 | > 120 | > 120 |
| Stiffness | IEC 60371 - 2 | N/m | < 55 | < 55 | < 55 | < 55 |
| Break Down Voltage | IEC 60243 - 1 | Kv | > 1.2 | > 1.2 | > 1.2 | > 1.2 |

TECHNICAL DATA : GMPCAB TAPES

| Properties | Test Method | Unit | Value | Value | Value |
|--------------------|---------------|------|------------|------------|------------|
| Nominal Thickness | IEC 60371 - 2 | mm | 0.12 ±0.02 | 0.14 ±0.02 | 0.16 ±0.02 |
| Total Substance | IEC 60371 - 2 | g/m2 | 170 ± 17 | 225 ± 20 | 257 ± 20 |
| Mica Paper | IEC 60371 - 2 | g/m2 | 100 ±7 | 150 ±10 | 180 ±10 |
| Glass Content | IEC 60371 - 2 | g/m2 | 35 ± 3 | 35 ± 3 | 35 ± 3 |
| Polyester Film | IEC 60371 - 2 | g/m2 | 16 ± 3 | 16 ± 3 | 16 ± 3 |
| Resin Content | IEC 60371 - 2 | g/m2 | 19 ± 4 | 24 ± 4 | 28 ± 4 |
| Tensile Strength | IEC 60371 - 2 | N/cm | >150 | >150 | >150 |
| Break Down Voltage | IEC 60243 - 1 | Kv | > 4 | > 4 | > 4 |
| Volatile Contents | IEC 60371 - 2 | % | < 0.5 | < 0.5 | < 0.5 |



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Ruby Mica®

GMCAB
GMPCAB
TAPES

for Fire-Resistant
Cable Insulation

About Us

Ruby Mica Co. Ltd. was established in 1968 for manufacturing the highest quality mica based electro-thermal insulating materials, catering to a large variety of industrial applications globally. Armed with over 45 years of experience, we have continuously evolved in accordance to the dynamic market needs, churning out innovative insulation slutions for the electrical industry ever since. Our state-of-the art fully-integrated manufacturing facility renders us complete control right from product conception phases to micro-product developmental stages leading to ultimate customer satisfaction.

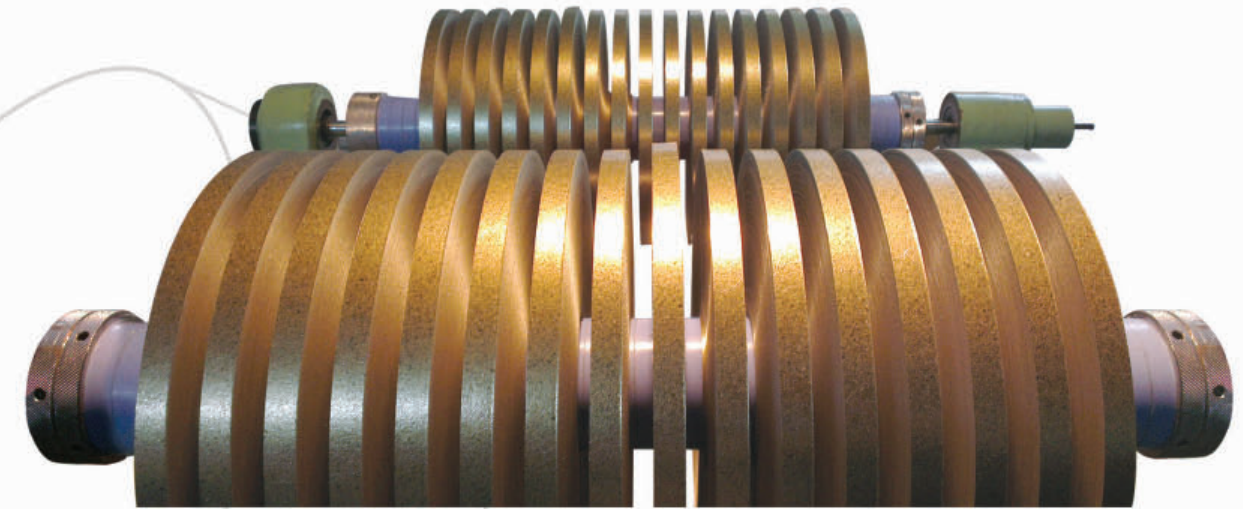
At The Forefront of Innovation

Ruby Mica Co. has developed a high performing range of mica tapes especially for fire resistance cable insulation. After years of rigorous R&D we improvised the process of laminating mica paper and glass cloth together, creating a product that is impervious to twists and turns, rendering the mica paper layer invincible from all possibilities of surface cracking or peeling during its handling and application. In the unfortunate event of a fire the silicone binder in the mica tape undergoes pyrolysis forming a protective ceramic layer on the wire considerably enhancing the fire-fighting capabilities of cable tapes.

We strongly believe that good ingredients make a great end-product, hence we start by manufacturing the highest grade of mica paper ourselves, specifically pick recommended backing-materials, finally laminate them together using world-renowned binding resins, which keeps product-aging in check and at the same time ensures a longer shelf-life. The moment you receive your consignment, you will discover our expertise and finesse shining through our products. A highly reliable product and honest pricing policy comes as a standard when you deal with us.

Glass Mica Cable (GMCAB) Tape

Ruby Mica ® GMCAB Tape is a lamination of uncalcined phlogopite/muscovite mica paper with a glass cloth. A high thermal-grade silicone resin is used as a binder, making it a class 'H' insulation product.



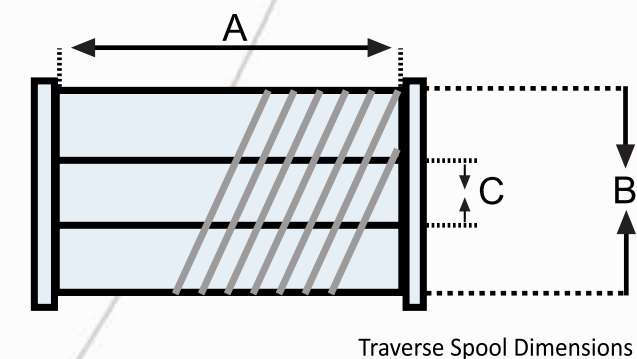
Glass Mica Cable Tape Reinforced with Polyester Film (GMPCAB) Tape

Ruby Mica® GMPCAB Tape is a lamination of uncalcined phlogopite/muscovite mica paper with PET film one side and glass cloth on the other, making it a three-layer high-performing mica tape. What makes this tape truly special is its unique blend of high tensile strength imparted by glass cloth, strong electrical resistance borrowed from the PET film and superior thermal-sustenance brought about by the use of the best quality mica there is. A high thermal-grade silicone resin is used as a binder, making it a class 'H' insulation product.

An additional layer of PET film secures the mica paper in its position at all times, while providing a seamless mica tape lapping on the wires. The addition of PET film to the glass mica tape reduces the hassle and one time-consuming activity for the cable companies who wrap a single layer of PET film on their cables after wrapping the glass mica tape as well. PET film adds on 3.5kV of break down voltage protection to electric cables operating below 120°C. We ran a lot of suitability tests in our labs in order to study the behavior of PET film at different temperature increments and found out that it simply vanishes without a single trace at 600°C. Thus you can rest assured that the PET film enhances the mica tape's workability multi-fold without altering its fire-fighting properties in any way.

Application

Glass Mica Cable Tapes impart fire-resistant properties to the electric cables and are suitable for power and control cables, instrumentation and signaling cables. Circuit-integrity is ensured by these tough and resilient FRLS cable tapes during fire and in high-temperature environments up to 950°C. Due to their superior flexibility and tensile strength, all our GMCAB / GMPCAB tapes are high-speed taping machine-compatible. The product is compliant to IEC 60371-3-8.



Availability

Pad:

Length : 300-500 m
Tape width : 5 - 10 mm or in multiple of 5 mm up to 1000 mm
Core ID. : 76 mm (max roll diameter – 310 mm)

Traverse spool:

Length : 500 m – 15 km
Tape width : 5 - 10 mm or in multiple of 5 mm up to 1000 mm
Core ID. : 76 mm, 120 mm (max roll diameter – 310 mm)

Traverse spools can be customized as per desired specifications.