

Synthetic Mica Tapes for Fire-Resistant Wires and Cables

Composition: Synthetic mica tape for fire-resistant wire and cable, consists of heat resistant synthetic mica paper (heat resistant up to 1100°C) bonded to supporting materials of non-alkaline glass fiber fabric, impregnated with high temperature resistant silicone resin.

Properties: Wire and cables wrapped with synthetic mica tape maintain excellent insulating performance even exposed to high temperature of 1100°C. Suitable for thermal and electrical insulation application of all types of fire-resistant cables, especially those with requirements of fire resistance above 950°C. Is compliant with GB/T19216--2003/IEC331/BS6387CWZ. Tests show that cables wrapped with two layers of this tape with thickness of 0.1mm maintain circuit integrity when exposed to temperature of 950°C and voltage of 1.0KV for 90 minutes; cables wrapped with two layers of this tape with thickness of 0.135mm maintain circuit integrity when exposed to temperature of 1000°C and voltage of 1.0KV for 90 minutes.

Typical Properties – Glass Backed

Type	MPS5460-G			
Normal Thickness (mm)	0.08±0.015	0.11±0.015	0.135±0.015	0.15±0.015
Total Substance (g/m ²)	110±10	147±10	192±10	216±14
Mica Content (g/m ²)	75±5	100±5	140±5	160±8
Glass Content (g/m ²)	24±2	34±2	34±2	34±2
Bond Content (g/m ²)	11±3	13±3	18±3	22±4
Dielectric Strength (kv/layer)	>1	>1.2	>1.2	>1.2
Tensile Strength (N/cm)	>100	>120	>120	>120
Stiffness (N/m)	<25	<50	<55	<65
Thermal Conductivity (W/m°C)	0.2-0.25	0.2-0.25	0.2-0.25	0.2-0.25

Test procedure: IEC371-3-8 1995 Edition; Availability: Width 3 – 1000mm, Length 300 – 2000m

Standard cores: 76mm and 120mm

Note: These technical data are average results of laboratory tests conducted under standard procedures and are subject to variations, and do not constitute a warranty or representation for which we assure legal responsibility.

Products are ISO9001:2000, ISO14001:2004, UL, CE, TUV, and SGS Certified