

## Phlogopite Mica Tapes for Fire-Resistant Wires and Cables

**Composition:** Phlogopite mica tape for fire-resistant wire and cable, a band shaped electrical and thermal insulating material consists of phlogopite mica paper (heat resistant up to 950°C) bonded to supporting materials of non-alkaline glass fiber fabric or PE film, impregnated with high temperature resistant silicone resin.

**Properties:** Wire and cables wrapped with phlogopite mica tape maintain excellent insulating performance even exposed to high temperature of 950°C. Suitable for thermal and electrical insulation application of all types of fire-resistant cables. Is compliant with GB/T19216--2003/IEC331/BS6387CWZ. Tests show that cables wrapped with two layers of this tape with thickness of 0.125mm maintain circuit integrity when exposed to temperature of 900°C and voltage of 1.0KV for 90 minutes.

### Typical Properties – Glass Backed

Type	MPJ5460-G			
Normal Thickness (mm)	0.08±0.015	0.10±0.015	0.125±0.015	0.14±0.015
Total Substance (g/m <sup>2</sup> )	110±10	132±10	172±10	216±14
Mica Content (g/m <sup>2</sup> )	75±5	85±5	120±5	160±8
Glass Content (g/m <sup>2</sup> )	24±2	34±2	34±2	34±2
Bond Content (g/m <sup>2</sup> )	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



## Typical Properties – Film Backed

Type	MPJ5460-F		
Normal Thickness (mm)	0.10±0.015	0.125±0.015	0.14±0.015
Total Substance (g/m <sup>2</sup> )	114±10	158±10	204±14
Mica Content (g/m <sup>2</sup> )	85±5	120±5	160±8
PE Content (g/m <sup>2</sup> )	25±2	25±2	25±2
Bond Content (g/m <sup>2</sup> )	9±2	13±3	19±3
Dielectric Strength (kv/layer)	>5.5	>6	>6
Tensile Strength (N/cm)	≥80	≥80	≥80
Stiffness (N/m)	<25	<55	<65
Thermal Conductivity (W/m°C)	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