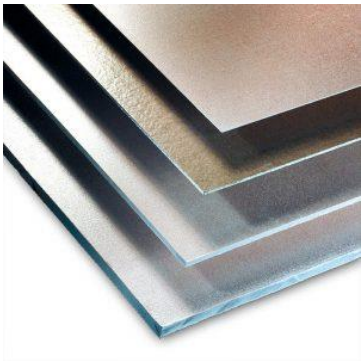


MICA - FP

Rigid Muscovite Mica Sheet



MICA Fire Protection is used as a fire break most commonly in electric vehicle battery packs. It is often used in the manufacturing of commutators. MICA Fire Protection consists of a rigid muscovite mica sheet impregnated with an epoxy resin. This epoxy mica material is sanded to reach precise thickness with low tolerance. MICA Fire Protection is 100% free of toxicity.

Features

- Mica content: 88%
- Silicon binder: <12%
- Dielectric strength: >10 kV/mm
- Can be bonded to metal cooling plates

Availability

- Available in standard thicknesses of 0.5 and 1.0 mm
- Standard sheet sizes are 1200x1000mm

Benefits

- Heat Resistance: 700°C
- 100% free of toxicity
- Can be converted into custom shape parts including holes, slots, etc.

Recommended Uses

- Used as a fire break inside electric vehicle and other energy storage systems
- Used in the construction of electric motors
- Resists open flame propagation

Typical Physical Properties

Property (unit)	Test Method	MICA - FP
Colour	Visual	Dark Gray
Thicknesses (mm)	-	0.5 - 2
Density (g/cm³)	-	2.2
Heat Resistance:	-	-
- Continuous Services (°C)	-	700
- Intermittent Services (°C)	-	1000
Heat Loss:	-	-
- @500°C	-	< 1%
- @700°C	-	< 2%

Electrical and Mechanical Information

Property (unit)	Test Method	MICA - FP
Composition Muscovite MICA (%)	-	> 88
Silicone Binder Content (%)	-	< 12
Flexural Strength (Mpa)	-	140
Dielectric Strength 20°C (KV/mm)	-	10
Water Absorption 23°C/24h (%)	-	< 1
Flame Resistance	-	90 V-0



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This material is often used in these industries:

