HRM MICA SHEET – DATASHEET

HRM (Heat Resistant Mica) Sheet is manufactured using natural mica splittings/flakes (Muscovite or Phlogopite) combined with high-temperature synthetic resin binder.

Material Composition

Component	Percentage
Muscovite / Phlogopite Mica	85–95%
Synthetic Resin Binder	5–15%

Material Details:
- Mica provides high dielectric strength and thermal resistance
- Muscovite: Better electrical insulation
- Phlogopite: Better high-temperature performance
- Synthetic resin ensures bonding, strength, and stability

Technical Specifications

Property	Unit	Value
Density	g/cm³	1.8 – 2.2
Thermal Conductivity	W/m·K	0.3 – 0.5
Dielectric Strength	kV/mm	> 20
Tensile Strength	MPa	100 – 150
Water Absorption	%	< 1