

Features

- Reliable Electrical Insulator, even at High-Temperatures
- Highly Durable
- Flexible
- Easy to Cut or Punch
- Moisture Resistant

RS PRO Muscovite Mica Insulation Film 304mm x 200mm x 1mm, 5 Sheets

RS Stock No.: 785-0827



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

Rigid Mica sheets are specifically developed for providing outstanding thermal and electrical insulation in a broad range of industries.

The product has a low thermal conductivity, high dielectric strength and high-voltage resistance.

Mica Sheets are the ideal alternative for asbestos insulations.

Good resistance to high temperatures & chemicals, low heat conductivity, high dielectric strength, good high-voltage proof performance.

Fire resistance classification UL94 (94 V-0), BS 479 (class 1), NBN 21-203 (A1), NFF16-101/2 (M0 u. F0)

General Specifications

Mica Content	≥ 88%
Silicone Binder Content	≤ 12%
Density	2 – 2.35 g/cm ³

Mechanical Specifications

Heat Resistance Continuous Intermittent	500°C 800°C
Tensile Strength	150 N/mm ²
Flexural Strength (Bending)	160 N/mm ²
Compressive Strength Perpendicular Parallel	300 N/mm ² 50 N/mm ²
Water Absorption	≤ 0.5% (24h/23°C)

Electrical Specifications

Dielectric Strength 20°C 400°C 600°C	20 KV/mm 13 KV/mm 10 KV/mm
Thermal Conductivity (20°C)	0.3 W/mK
Volume Resistivity 20°C 400°C 500°C	10 ¹⁶ Ω/cm 10 ¹² Ω/cm 10 ⁹ Ω/cm
Heat Loss 500°C 700°C	< 1.5% < 2%
Tracking Resistance	CTI 600

Approvals

Declarations	MFR Declaration of Conformity
Compliance/Certification	RoHS and REACH
Flammability Rating	UL 94 V-0
Reaction to Fire	A2-s1, d0

Similar Products

Stock No.	Brand	Product Name	Max Temp	Thickness
134-940	RS PRO	Phlogopite Mica Insulation Film	600°C (1,000°C Intermittent)	0.2mm
134-941	RS PRO	Phlogopite Mica Insulation Film	600°C (1,000°C Intermittent)	1mm
785-0815	RS PRO	Muscovite Mica Insulation Film	500°C (800°C Intermittent)	0.2mm
785-0824	RS PRO	Muscovite Mica Insulation Film	500°C (800°C Intermittent)	0.5mm
785-0827	RS PRO	Muscovite Mica Insulation Film	500°C (800°C Intermittent)	1mm