

## FEATURES

- Rigid mica plastic film sheets
- Resistance to temperatures of over 500°C
- Dielectric strength of 25 kV/mm
- Density of 2.15g/cm<sup>3</sup>
- Environmentally safe and non-toxic plastic film
- Length of 304 mm
- Width of 200 mm
- Thickness of 0.5 mm

## Mica Plastic Film, 304mm x 200mm x 0.5mm

RS Stock No.: 785-0824



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

This flexible and durable electrical insulating film from RS PRO provides reliable protection at temperatures of more than +500°C. The thin mica laminate plastic film is easy to cut or punch. Thanks to its layered construction, it's waterproof, lightweight and pliant.

With features such as excellent thermal properties and high tensile strength, this is a safe choice for use in high-temperature environments. This environmentally-friendly and non-toxic electrical insulating film is also resistant to flames, extreme heat and abrasion and is blister-free and creates a low amount of smoke. If kept in a dry location and at room temperature, it has an unlimited shelf life.

### General Specifications

<b>Material</b>	Mica
<b>Flame Retardant</b>	V-0
<b>Application</b>	Electronic and electrical applications

### Electrical Specifications

<b>Dielectric Strength</b>	25kV/mm
<b>Insulation Resistance 23°C</b>	>10 <sup>17</sup> Ω.cm
<b>Insulation Resistance 550°C</b>	>10 <sup>12</sup> Ω.cm

### Mechanical Specifications

<b>Length</b>	304mm
<b>Width</b>	200mm
<b>Thickness</b>	0.5mm
<b>Density</b>	2.15g/cm <sup>3</sup>
<b>Edge Strength</b>	>1.3kg/0.1mm
<b>Tensile Strength</b>	150N.mm <sup>-2</sup>
<b>Flexural Strength</b>	>180N.mm <sup>-2</sup>
<b>Water Absorption</b>	<1%

**Operation Environment Specifications**

<b>Maximum Operating Temperature</b>	500°C
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**Approvals**

<b>Compliance/Certifications</b>	RoHS (Restriction of Hazardous Substances) Compliant, UL 94 V-0, IEC 371-3-3
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## Characteristics

Type		Mica	
Mica content	%	ca.90	IEC 371-2
Bond content	%	ca.90	IEC371-2
Thickness	mm	0.2	IEC 371-2
Density		2.15 ± 0.15	IEC371-2
Heat Resistance			
Continuous service	°C	500	
Intermittent service	°C	800	
Edge Strength	Kg/0.1 mm	>1.3	in house
Tensile Strength	N.mm-2	150	ISO 527
Flexural Strength	N.mm-2	>180	ISO178
Water absorption	%	<1	IS 62
Dielectric Strength	KV/mm	>25	IEC243
Insulation Resistance 23°C	Ω.cm	>10 <sup>17</sup>	IEC 93
Insulation resistance 550°C	Ω.cm	>10 <sup>12</sup>	IEC 93
Heat Loss at 500°C	%	<1	IEC 371-2
Thermal Expansion			
Perpendicular to Layer	10 <sup>-6</sup> K-1	100	
I parallel to Layer	10 <sup>-6</sup> K-1	10	