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Attamica H Product Data Sheet

Material Details

| | |
|-------------------------|---|
| Grade: | Attamica H. (Type: Mica Products) |
| Description: | Silicone Mica paper. Silicone bonded muscovite sheet (Not manufactured by The Attwater Group) |
| Comments: | Pressed silicone mica muscovite. Thinner sheets punchable and often used as carriers for heater elements in electrical appliances. Thick sheets may be cut and machined as required into finished parts for applications where temperature resistance is paramount. |
| Body Colour: | Silver Grey |
| Cover Colour: | Silver Grey |
| Standard Finish: | Matt |
| Size: | 1200 x 1000 Thickness Range: 0.12 - 75.0 † |

Typical Applications

- Track Resistance
- Thermal Splash Barriers
- Punched Components
- Microwave Windows
- Low Loss Insulation
- High Voltage Insulation
- High Temperature Components
- High Frequency Insulation
- Gasket Manufacture
- Furnace Insulation
- Busbar Supports
- Bolt Insulation

General Properties

| Property | Unit of measure | Typical Value |
|------------------------|-------------------|---------------|
| Flammability Category† | - | UL94V0 |
| Water Absorption | % | <1 |
| Density | g/cm ³ | 2.1 |

† Where relevant, the flammability test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

Electrical Properties

| Property | Unit of measure | Typical Value |
|----------|-----------------|---------------|
|----------|-----------------|---------------|

Electric Strength (Flat Rapid)

kV/mm

25

Mechanical Properties

| Property | Unit of measure | Typical Value |
|------------------------------|-----------------|---------------|
| Flexural Strength | MPa | 200 |
| Compressive Strength (22°C) | MPa | 360 |
| Compressive Strength (200°C) | MPa | 235 |

Thermal Properties

| Property | Unit of measure | Typical Value |
|-----------------------------|-----------------|---------------|
| Thermal Rating Continuous | °C | 500 |
| Thermal Rating Intermittent | °C | 800 |
| Thermal Shock | °C | 800 |
| Weight Loss at 550°C | % | <2 |
| Thermal Conductivity ? | W/mK | 0.3 |

Notes

- Datasheet Issue No. 2

Disclaimer: The above values are based upon routine test data and do not form the basis of a supply contract. These products may be used in a diverse range of applications and whilst every effort is made to ensure the information in this data sheet is accurate, it must be stressed that it is the user's responsibility to ensure suitability for the intended end use.

Source: <https://www.attwater.com/products/attamica-h/>