

INFORMATION SHEET

Rigid micanite plate R-5660-H series

We offer a **rigid micanite plate R-5660-H series**. Plates of this series are mainly used in household appliances (ovens, toasters, microwave ovens, fan heaters, hair dryers, irons, etc.) as supports for heating elements or insulating liner.

Relative to general insulation material, the prominent advantages of the rigid mica plate are:

- excellent insulating properties at high temperature: at 500 – 1000 °C operating ambient temperature, the voltage breakdown resistance is 15KV/mm;
- good tensile property: it can be processed into a variety of shapes without layer separation;
- excellent environmental protection performance: the product contains no asbestos, and has less smoke and odors, even smokeless and odorless when heating;
- resistant to temperatures up to 1000 ° C;
- excellent acid, alkali and oil resistance.

Specifications::

- typical sizes of plates: 1000×600mm, 1000×1200mm, 1000×2400mm
- thickness: 0.1mm, 0.15mm, 0.2mm .. 100mm (± 10%)

Note: The product less than 2.0mm thickness can be formed by stamping. The products larger than 2.0mm shall be processed by turning, milling, drilling and other processes.

Storage:

Stored in dry and moisture-proof indoor place at room temperature, there is no service life limit.

Parameters of flexible micanite plates:

Item	Unit	R-5660-H1	R-5660-H2	R-5660-H3	Testing procedure
Mica paper		Muscovite	Synthetic	Phlogopite	
Mica content	%	ca. 90	ca. 90	ca. 90	IEC 371-2
Bond content	%	ca. 10	ca. 10	ca. 10	IEC 371-2
Density	g/cm ³	1,6 - 2,45	2,2 - 2,3	1,6 - 2,45	IEC 371-2
Heat resistant					
- continuous services	°C	500	900	750	
- intermittent services	°C	800	1100	1000	
Heat loss at 500 °C	%	<1	<1	<1	IEC 371-2
Heat loss at 700 °C	%	<2		<2	IEC 371-2
Water absorption	%	<1	< 1,5	<1	GB/T5019
Dielectric strength	kV/mm	>20	> 25	>15	IEC 243
Insulation resistance at 23 °C	Ω.cm	10 ¹⁷		10 ¹⁷	IEC93
Insulation resistance at 500 °C	Ω.cm	10 ¹²		10 ¹²	IEC93

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Flame resistance		90V0		90V0	UL94
Test for flammability	s	<4		<4	
Compressive strength at 20°C	MPa			330	ISO 604
Compressive strength at 200°C	MPa			240	ISO 604
Tensile strength	MPa		140	110	ISO 527
Flexural strength	MPa		180	170	ISO 178

While every attempt has been made to verify the source of the information, no responsibility is accepted for accuracy of data.

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