

## 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 odours, even smokeless and odourless 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
<b>Mica paper</b>		<b>Muscovite</b>	<b>Synthetic</b>	<b>Phlogopite</b>	
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 <sup>3</sup>	2.25±0,1	2,2 - 2,3	2.25±0,1	IEC 371-2
Operating temperature	°C	500-600	900	700-800	
Heat loss at 500 °C	%	<1	<1	<1	IEC 371-2
Heat loss at 700 °C	%	<2		<2	IEC 371-2
Thermal conductivity	W/m·K	0.16		0.14	
Water absorption	%	<0.2	< 1,5	<0.2	GB/T5019
Dielectric strength	kV/mm	>25	> 25	>25	IEC 243
Insulation resistance at 23 °C	Ω.cm	10 <sup>17</sup>		10 <sup>17</sup>	IEC93
Insulation resistance at 500 °C	Ω.cm	10 <sup>12</sup>		10 <sup>12</sup>	IEC93
Flame resistance		90V0		90V0	UL94
Test for flammability	s	<4		<4	
Compressive strength	MPa	>300		>300	ISO 604
Tensile strength	MPa	>200	140	>200	ISO 527
Flexural strength	MPa	>225	180	>225	ISO 178

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