

## Glass Bonded Mica Board

**TENMAT** ARCLEX has been developed as a quality machinable glass bonded mica. It is resilient against high power electric arcs and is widely used in arc chutes for both static (e.g. power stations) and transport applications.

**TENMAT** ARCLEX is available in sheets of thickness between 3 and 30 mm. Standard sheet sizes are 508 x 381 mm. The sheet edges contain micro porosity - if this is detrimental to the application, it is recommended that sheet edges be trimmed back.

Alternatively, **TENMAT** ARCLEX machined components are available on request to customer drawings.

**TENMAT** is proud to supply ARCLEX into major transport infrastructure worldwide, including the Dubai Metro.



PROPERTY	UNITS	ARCLEX
Density	g / cm <sup>3</sup>	2.61
Compressive Strength	MPa @ ambient	231
Compressive Yield	%	1
Shear Strength	MPa @ ambient	58
Tensile Strength	MPa @ ambient	33
Flexural Strength	MPa @ ambient	130
Water Absorption	% in 24 hours @ 23 °C	0.3
Electric Strength @ 90 °C	KV/mm in air	>40
Surface Breakdown @ 90 °C	KV in air	>14
Thermal Conductivity	W/mK	0.75
Thermal Expansion	x10 <sup>-6</sup> /°C	10
Maximum Continuous Operating Temperature	°C	500
Maximum Intermittent Operating Temperature	°C	500

The information contained in this data sheet is presented in good faith. They are typical test results tested generally in accordance with BS 2782 and ASTM test methods and should not be used for specifications. **TENMAT** does not warrant the conformity of its materials to the listed properties or their suitability for any particular purpose. For further information please contact our Technical Sales Department on +44 161 872 2181.