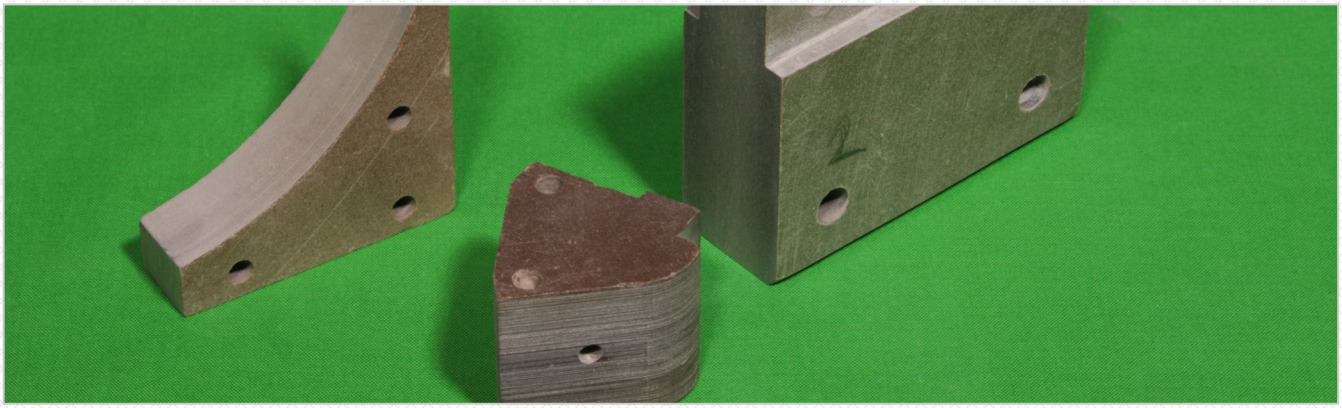
TENMAT ADVANCED MATERIALS

ARCLEX

Technical Data Sheet

Glass Bonded Mica Board manufactured in the UK



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 sheets sizes are 508 x 381 mm. The sheet edges contain micro porosity - if this is detrimental to the application, it is recommended that sheets 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^3	2.65
Compressive Strength	MPa @ ambient	250
Compressive Yield	%	1.02
Shear Strength	MPa @ ambient	29
Tensile Strength	MPa @ ambient	26
Flexural Strength	MPa @ ambient	128
Water Absorption	% in 24 hours @ 23 °C	0.14
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	$x10^{-6}$/°C	10
Maximum Continuous Operating Temperature	°C	500
Maximum Intermittent Operating Temperature	°C	500

Issue 03/18