



Arclex

Arclex is a proprietary blend composed of muscovite mica bonded with leadless glass and has an extremely high resistance to electrical arcs and a low moisture absorption.

**Product
Description**

Arclex has been developed as a high-quality machinable glass bonded mica. It is resilient against high power electric arcs and is widely used in arc chutes for both static (eg power stations) and transport applications. The material has an extremely high resistance to electric arcs and a very low moisture adsorption, providing excellent electrical properties even in humid atmospheres. Arclex has been specifically designed for high performance electrical insulation in Switchgears and is available as sheets of various thicknesses, and as machined parts.

**Product
Advantages**

- Available to be machined to suit customer drawings
 - Exhibits an extremely high resistance to electric arcs, and a very low moisture absorption
 - Provides excellent electrical properties even in humid atmosphere
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Approved Applications

- Static and transport switchgear: arc chutes, splitters, phase barriers
- High Frequency equipment: coil formers and strips, support bars and rods, mounting panels
- Transformers: coil spacers, support bars, electrical and thermal insulation

Technical Data

Property	Units	Arclex
Density	g/cm ³	2.65
Flexural Strength	MPa	130
Compressive Strength	MPa	250
Tensile Strength	MPa	30
Shear Strength	MPa	30
Compressive Yield @ 68.9 Mpa	%	1.0
Water Absorption (24 hours @ 20 °C)	%	0.2
Coefficient of Thermal Expansion	x 10-6/°C	8
Electric Strength in air @ 90 °C	kV/mm	>40
Breakdown Voltage in air @ 90 °C	kV	>14
Thermal Conductivity	W/m.K	0.75
Maximum Operating Temperature	°C	500

Sizes

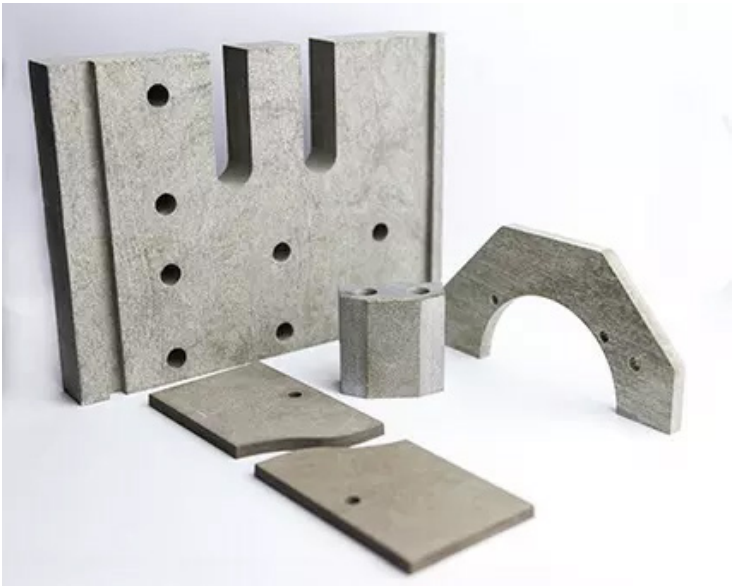
Thickness availability - 3mm up to 30mm, standard sheets are 508 x 381

Intended use

- Electrical insulation
- Electrical arc dissipation

Storage

- Store in a dry location and maintain dry conditions
- Take care not to exceed safe working loads and heights for storage shelves and racks



Arclex

ARCLEX

FEROFORM

FIREFLY

NITRASIL

REFEL

**REFRACTORY
PRODUCTS**

REFRAVER

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Advanced materials.
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