Technical Data Sheet

SW-COMMUTATOR M & P (epoxy mica sheets)

Description:

SW-COMMUTATOR M & P sheets are hard, dense mica plates used in segments, separators and spacers. They exhibit good electrical & thermal properties and mechanical strength.
SW-COMMUTATOR M & P sheets can be sawed, shared and punched into customized shapes. Its superior uniformity enables automatic feeding and stacking within high speed assembly operations.
SW-COMMUTATOR M & P sheets are used within a wide range of small and medium size commutators for all kind of household applications, industrial equipment and power tools.

Composition:

SW-COMMUTATOR M & P sheets consist of minimum 90% Muscovite alternatively Phlogopite impregnated with a specially developed epoxy resin.

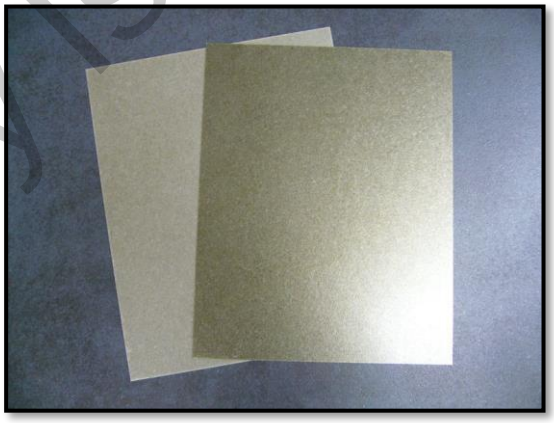
Delivery form:

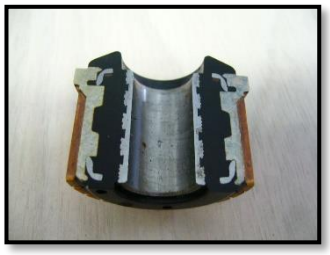
Thickness:	0.2 mm – 1.9 mm	± 0.02 mm
Width:	1,000 mm	± 0.20 %
Length:	600 mm – 1,200 mm lang	± 0.20 %

Customized strips or punched parts according to customers' drawings and/or requirements.

Processing:

SW-COMMUTATOR M & P sheets can be easily punched, or sheared. Tools for punching precise parts should be provided with spring loaded hold-down plates.





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Technical Data	*Muscovite*	*Phlogopite*
Mica content: (IEC 60371-2)	≥ 90 %	≥ 90 %
Bond content (epoxy binder content): (IEC 60371-2)	≤ 10 %	≤ 10 %
Density: (IEC 60371-2)	~ 2.20 g/cm³	~ 2.20 g/cm³
Compressibility: Ce-elastic Cp-plastic (IEC 60371-2)	 ≤ 2.5 % ≤ 2.5 %	 ≤ 2.0 % ≤ 2.0 %
Flexural strength: (IEC 60371-2)	≥ 300 N/mm²	≥ 300 N/mm²
Elastic modulus: (IEC 60371-2)	≥ 80,000 N/mm²	≥ 70,000 N/mm²
Temperature limit of application:	150 °C	150 °C
Resistance to exudation and displacement:	200 °C	200 °C
Dielectric strength: (IEC 60243)	≥ 20 KV/mm	≥ 20 KV/mm
Tracking resistance: (IEC 60112)	≥ 500 V	≥ 600 V
Arc resistance: (ASTM-D495)	4 s	4 s

Conformity:

Regulation **(EC) No 1907/2006** concerning the Registration, Evaluation, Authorization and Restriction of Chemicals **(REACH)**

Directive **2011/65/EU** on the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment **(RoHS)**

Full details can be found in our certificates and declarations of conformity.

Note: These technical data are average results of laboratory tests conducted under standard procedures and are subject to variations, and do not constitute a warranty or representation for which we assure legal responsibility.