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Rauschert



TECHNICAL CERAMICS

RAMUL

Alumosilicate

Innovation meets tradition.

RAMUL
Alumosilicate

Our **RAMUL** is a **gas-tight alumosilicate**. We offer this material in two different variations depending on the Al2O3 content. It is a very versatile material and, due to its high dielectric strength and mechanical strength, is very often used as a fuse body especially for so-called **NH cartridges**. Preferably, this material is produced by our extrusion process.
If it is necessary to use a different process in terms of design, we are open to it.

TECHNICAL CERAMICS

PRODUCT PROPERTIES

RAMUL 610

A mullite material of type C610 according to DIN EN 60672-3. Its high application temperature of **up to 1,400 °C** makes it a possible candidate for your **high-temperature applications**. The high dielectric strength and good **corrosion resistance** stand for safe use as **an insulator** even under adverse conditions.

Our **Ramul 610** stands for a versatile material for demanding thermal, chemical and mechanical applications in furnace construction and temperature measurement.

RAMUL 620

The **high dielectric strength** coupled with a sufficiently **high thermal conductivity** also makes this material interesting as a partner for the heat dissipation of **electronic components**. Thermal management in electronic assemblies is becoming increasingly important due to the **high-power density**.

TYPICAL VALUES	RAMUL 610	RAMUL 620
Material base	Alumosilikate	Alumosilikate
Main Component	Al_2O_3 50-60%	Al_2O_3 65-80%
Open porosity %	0	0
Density [g/cm³]	2.6	2.8
Tensile Strength [MPa]	100	150
Coefficient of linear expansion 20-600°C $10^{-6}K^{-1}$	5-7	5-7
thermal conductivity [W/mK]	2-6	6-15
Thermo shock resistance	good	good
Resistivity 20°C	10^{11}	10^{12}
Resistivity 600 °C	10^{4}	10^{5}
Breakdown Voltage [KV/mm]	17	15



YOUR BENEFITS

Versatile material with good imageability and price/performance ratio if you are looking for **excellent electrical insulation with very good strength and cost-effectiveness**.

Your benefit is our proven and established standard extrusion process. With l**ow tool costs and our own tool construction**, we ensure **faster implementation.**

We can rework by milling to achieve tighter tolerances, drill holes or cut threads oft metal part applications in a semi-automated process - **it will keep your costs low.**

All information, technical specifications and illustrations contained in this datasheet have been compiled with the utmost care. However, no liability is accepted for the accuracy, completeness or currency of the information provided.

Your Inquiry – Fast & Precise Quotation
For a fast and precise quotation, please send us a drawing of the component along with details on quantities and tolerances. We will be pleased to advise you personally.

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