APSOplast® EP GM 203

Angst+Pfister

Engineering plastics technology
Technical Data Sheet

Application purpose and characteristics
Material can be used as a high quality construction material as well as an electric and thermal insulation material, especially in those areas where high operating temperatures are coupled with high mechanical strength requirements.
High temperature resistant epoxy laminates with very good mechanical and thermal properties at hight temperatures.

Material name, short description	EP GM
Material name, based on technical standards	Epoxy laminated glass mat
Density	2 g/cm³
Color	
Compound code	EP GM 203.021-00

Mechanical properties

Tensile strength	≥ 250 N/mm² ISO 178
Flexural modulus of elasticity	≥ 20000 N/mm² ISO 178 perpendicular to laminations
Bending strength 1	≥ 360 N/mm² ISO 178 23 °C
Bending strength 2	≥ 200 N/mm² ISO 178 150 °C
Bending strength 3	≥ 100 N/mm² ISO 178 180 °C
Compressive strength 1	≥ 600 N/mm² ISO 604 perpendicular to laminations
Impact strength	≥ #ErrorkJ/m² ISO 179 Charpy, parallel to laminations

Thermal attributes

Thermal conductivity	0.35 W/(m·K) ISO 8302

Electrical attributes

Comparative tracking index	180 CTI IEC 60112
Dielectric tension	≥ 60 kV IEC 60243-1 90 °C, in oil parallel to laminations
Dielectric strength 1	≥ 13 kV/mm IEC 60243-1 90 °C, in oil perpendicular to laminations, thickness 3mm
Insulation resistance	≥5x103 MOhm IEC 60167 after immersion in water

Other attributes

Water absorption	≤ 40 mg ISO 62-1 Thickness 10 mm

In compliance with **RoHS** and **REACH** directives.
This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.