Heat Insulating Plates Characteristics

- **Characteristics of Insulation Plate**
  MISUMI heat insulation plates provide excellent heat insulation. These plates are laminated heat resistance sheets which are made with glass fiber (that is forming frame) and combined material with high heat resistance.

- **Characteristics of Thermal Plate**
  MISUMI's Insulation Plates are lightweight and provide excellent heat insulation effect. The Heat Insulation Plates make it possible to improve operational environment such as heat radiation of equipment and prevention of burns at low cost.

- **Electrical Characteristic**
  - Izot Impact Strength: J/cm - - 4.6 or More
  - Cleavage Strength: kN 2.6~3.4 1.8~2.4 7.8~10.8 3.1 4.2 2.6 - - -

- **Thermal Characteristic**
  - Thermal Conductivity: W/m·K 0.3 0.3 0.3 0.24 0.13 0.08 0.20 0.44 0.07

- **Insulating Plate Characteristic Graphs**

- **Notes on Usage of Insulating Plate and Thermal Plate**
  - Do not use in areas where there may be splashes of water, chemicals. Insulation plates that have absorbed moisture may cause cracks or significant performance deterioration due to increased temperatures. Especially Free Cutting Grade (HIPMA) should be used where absolutely dry use is its nature of application.

- **Notes on Machining of Insulating Plate and Thermal Plate**
  - Be sure to firmly fix an Insulating Plate on the bench because it is soft.

- **Machinable Ceramic Process Conditions**
  - Cutting Speed (V) (m/min.) Large~Small Blades
    - 200~400
  - Rotational Speed (r.p.m.) Large~Small Blades
    - 300~1000

- **Machinable Ceramic Process Conditions**
  - Feed (mm/Rotation): 0.1~0.2

- **Measurement Condition**
  - Heating Temperature (°C)Room Temp. ~ 100: 10
  - Ambient Temperature (°C)Room Temp. ~ 25: 0

- **Finished Product Data**
  - Weight (kgf/mm²) - - -
  - Dimensions (mm) - - -
  - Inside Diameter (mm) - - -
  - Outside Diameter (mm) - - -

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