

Plastic mounting clip

KU-PA247/2

The electrically insulating, fiberglass-reinforced plastic mounting clip **KU-PA247/2** has been designed to meet the specific requirements of power electronics, especially those of power semiconductors in TO247 casings. Due to its application-specific design and the contact pressure it applies to the semiconductor, this clip ensures optimum thermal linkage to the heat sink. In addition, this mounting element is flexible, upgradeable and suitable for a wide range of appliances.

GENERAL PROPERTIES

Material	crystalline polymer	
Colour	black	
Filler	fiberglass	
Filler percentage	%	30
Density	g/cm ³	1.38
Weight	g	6.8

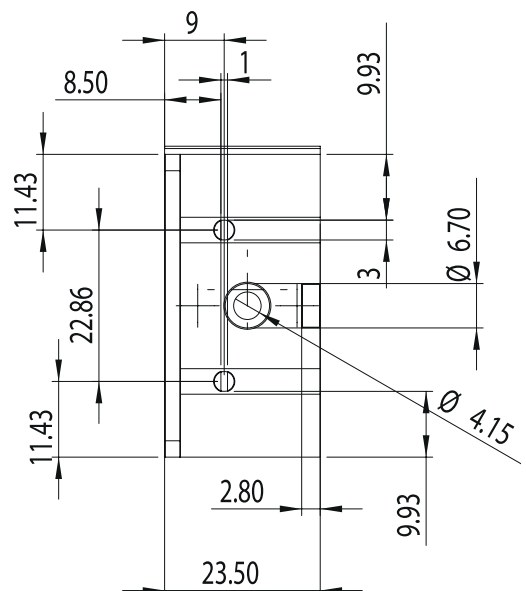
MECHANICAL PROPERTIES

Tensile strength	N/mm ²	125
Impact strength at +23°C	kJ/m ²	33
Bending strength	MPa	195
Tensile modulus	MPa	10.7

ELECTRICAL PROPERTIES

Dielectric strength	kV/mm	31
Specific volume resistivity	Ωm	1.0 x 10 ¹⁶

MEASUREMENTS

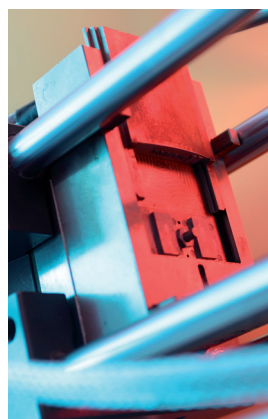


OTHER PROPERTIES

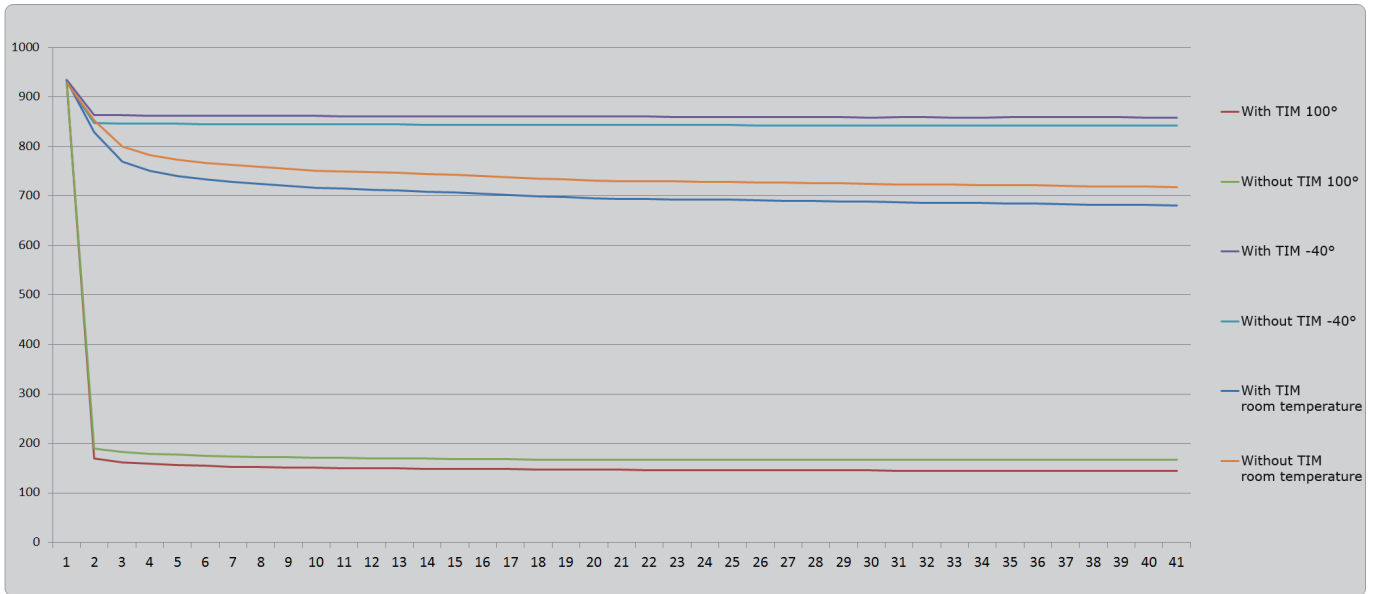
- High tracking resistance (CTI 1)
- Dielectric constant 3.2
- Excellent chemical resistance
- Very low water absorption
- Non-flammable according to UL94-V0

AREAS OF APPLICATION

- Power supply unity
- UPS
- Charging devices
- Frequency converters
- Power tools
- White goods



LONG-TERM TEST CHART



LONG-TERM TESTING RESULTS

The KU-PA247/2 plastic mounting clips were subjected to two parallel long-term tests under laboratory conditions, at three temperature ranges (room temperature 22°C, high temperature +100°C, and low temperature -30°C), over a period of 41 days.

At all three temperature ranges, the test revealed a steady reduction of contact force until about day 40, after which contact force is stable.

The differences between the two curves within the same temperature range are owed to the compressibility of the Thermal Interface Material.

TEST CONFIGURATION

