



BOSS® PTS 2010

TECHNICAL DATA

Basis	Polysiloxane
Consistency	Semi-Liquid
Color	White
Viscosity (cP)	2600-3200
Density (g/ml) (Part A, Part B)	1.66 ± 0.02
Mixing ratio (weight ratio) (25°C, 65%RH)	A : B = 1 : 1
Colour (After mixing)	Grey
Viscosity (CP)	2600-3200
Operating time (min)	60-120
Curing time (25°C, h)	2-4
Curing time (min, 80°C)	10~20
Hardness (shore A)	50-60
Thermal conductivity (W/m·K)	0.9±0.1
Dielectric strength (kV/mm)	≥14
Dielectric constant (1.2MHz)	2.8~3.3
Volume resistivity (Ω·cm)	≥1.86×10 ¹⁴

Description

BOSS® 2010 is a two-component silicone addition type potting compound is engineered for optimal performance in demanding electronic applications. Once mixed, the compound has a long working time at room temperature and cures quickly under heat, providing efficient and reliable protection for high-power electronic components.

Properties

- Low viscosity ensures excellent fluidity for easy application
- Fast Curing
- Maintains rubber-like elasticity across a wide temperature range (-50°C to 200°C) after curing
- Good thermal conductivity for effective heat dissipation
- Good insulation properties to protect electronic components

- No shrinkage during the curing process
- Outstanding waterproof, moisture resistance, and anti-aging performance
- It is ROHS passed product

Applications

- LED Driving Power Supplies
- Automotive HID Lamp Module Power Supplies
- Automotive Ignition System Module Power Supplies
- Network Transformers

Packaging

Packaging: Part A 25 kg & Part B 25 kg.
Colour: Part A - white & Part B - black

Shelf life

9 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

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Application method

Combine the A and B components in a mixing tank in a 1:1 weight ratio and Thoroughly mix each component (A and B) in their respective containers until fully homogeneous. Pour the mixture into the desired container. Allow the mixture to cure at room temperature or by heating. Note that curing at room temperature typically takes about 3 to 5 hours. In winter or cold conditions, curing may take longer. It is recommended to heat the mixture to expedite the process. Cure at 80°C for 15 to 30 minutes for optimal results

- To avoid these issues, ensure the circuit board is thoroughly cleaned of residual rosin. Use low-lead solder whenever possible. Alternatively, you can apply a conformal coating (three anti-paint) before using the glue.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- The glue should be stored in a sealed container. The mixed glue should be used immediately to avoid waste.
- This product is non-hazardous, but do not ingest it or allow it to come into contact with eyes.
- After prolonged storage, the glue may develop precipitation. Please mix it thoroughly before use; this will not affect its performance.
- Exposure to certain chemical substances can prevent the glue from curing. Small amounts of these substances typically do not affect curing:
 - N, P, S organic compounds
 - Ionic compounds of Sn, Pb, Hg, As, and other elements
 - Compounds containing alkynes and vinyl groups

Disclaimer: This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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