

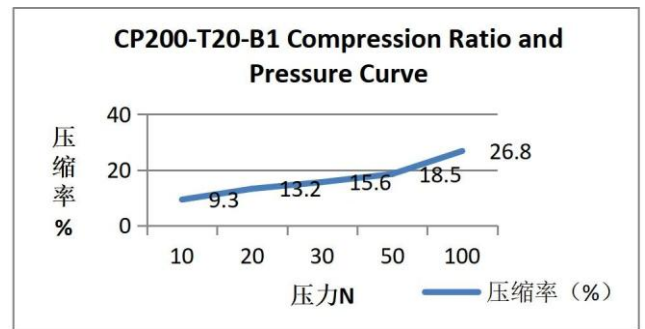
## CP200 Thermal Silicone Pad

Thermally conductive silicone sheets have certain flexibility, excellent insulation, compressibility, and natural surface viscosity. They are specially produced for designs that use gaps to transfer heat. They can fill gaps and complete heat transfer between heating parts and heat dissipation parts. At the same time, they also play the role of insulation and shock absorption. They are highly manufacturable and practical, and have a wide range of thickness applications. They can meet the design requirements of miniaturization and ultra-thin equipment. They are an excellent thermal conductive filling material and are widely used in electronic and electrical products.

Thermally conductive silicone sheets are designed from an engineering perspective to match the material with the irregular surface of the product, and high-performance thermal conductive materials are used to eliminate air gaps, thereby improving the overall heat conversion capacity and allowing the device to work at a lower temperature.

### Product Features

- Good thermal conductivity, low thermal resistance
- Good insulation, flame retardant
- Good surface wettability, natural viscosity
- Good compressibility, long life
- Multiple thickness options, can be made into any size



## Technical Data Sheet

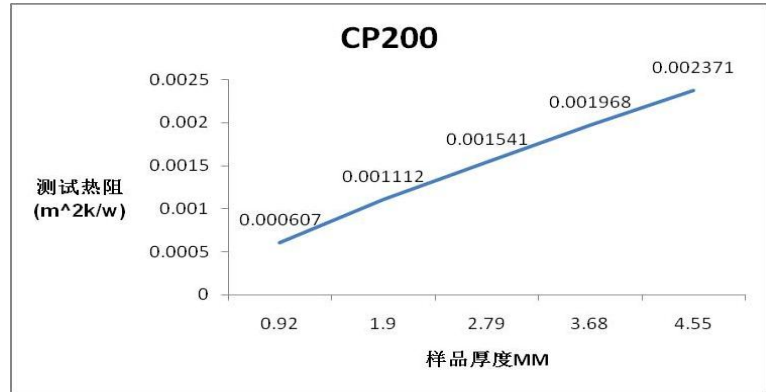
| Test Item                    | Unit              | Standard              | Test Method |
|------------------------------|-------------------|-----------------------|-------------|
| Color                        | /                 | Gray, Blue            | Visual      |
| Thickness                    | mm                | 0.2~20mm              | /           |
| Specific gravity             | g/cm <sup>3</sup> | 2.4±0.1               | ASTM D792   |
| Hardness                     | Shore C           | 20~50                 | ASTM D2240  |
| Tensile Strength             | MPa               | ≥0.2                  | ASTM D412   |
| Compression rate             | %                 | 15-30                 | ASTM D412   |
| Temperature resistance range | °C                | -40~150               | EN 344      |
| Volume resistance            | Ω·m               | ≥1.0*10 <sup>13</sup> | ASTM D257   |
| Dielectric constant(1MHZ)    | KV/mm             | ≥5.0                  | ASTM D150   |
| Withstand voltage            | KV/mm             | ≥10                   | ASTM D149   |
| Flame retardant rating       | /                 | V0                    | UL 94       |
| Thermal conductivity         | w/m.k             | 2.0±0.2               | ASTM D5470  |
| Oil penetration rate         | %                 | ≤1.0                  | ASTM G120   |

# PERFECT INSULATIONS

AN ISO 9001:2015 COMPANY

## Product Application

- LED lighting
- Backlight module
- Switching power supply
- Medical equipment
- Communication network
- Beauty equipment
- Security monitoring
- Wireless equipment
- Network products
- Consumer electronics
- PC server/workstation
- New energy battery



## Remark:

- If the thickness is less than 0.5mm, it must be filled with glass fiber and the hardness should be more than Shore C 30.
- Regular size: 200\*400mm, special size and shape can be customized.
- Storage validity period: 18 months, shelf life 5 years.
- Recommended storage temperature: 15°C~30°C, humidity <70%.

## Remarks / Disclaimer:

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