



Structural Layout Auxiliary Materials Acknowledgement

Document Number: F-ACK-9698

Page number: 1/5Page

Customer Name: (CUSTOMER) A-XX-10-88

PRODUCT SPECIFICATION SHEET

| | |
|-----------------|---------------------------------------|
| CUSTOMER | Shenzhen Nordest Technology Co., Ltd. |
| DESCRIPTION | Blue thermal conductive silicone pad |
| TYPE/MODEL | 200 * 400 * 1.0/MM |
| CLIENT PART NO. | C2837504 |
| LTD. NO. | NDST-DRJCP120-10300 |
| DATE NO. | 2021-05-31 |

| | | | | |
|---------------------|-----------|---------|---------|------------|
| Manufacturer | TECHNICAL | QUALITY | PROJECT | DEVELOPING |
| | 袁素萍 | 夏艳丽 | 彭彦华 | 彭春华 |

| | | | | |
|----------------------|-------------------|----------|----------|------------|
| Customer side | Material Engineer | Engineer | Approval | R&D System |
| | | | | |



Supplier Information

Company Name: Shenzhen Nordest Technology Co., Ltd.

Telephone: 0755-29527673

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Page number: 2/5Page

| | | | |
|---|-------------------------------------|---------|-----------------|
| Material Code: C2837504 | Acknowledgment Date : 2021-05-31 | Version | Modify content |
| Material Name: Blue thermal conductive silicone pad | Product Model: NDST-CP120 | 001 | Initial release |
| Size:200*400*0.5/MM | | | |
| Tolerance range: +/-0.5 | | | |
| Material: Silicone | | | |
| Color:Blue | | | |
| Print color: None | | | |
| Compliant with ROHS requirements: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | | |
| Storage environment: Room temperature | | | |
| Validity period: five years | | | |
| Attached drawing: (Unit: mm) | | | |
| | | | |

1. Engineering drawings: see attachment (CAD DWG or DXF files) (key dimensions indicated with numerical symbols) in accordance with <<Standards for Dimensioning Structural Component Drawings>>

| Size Number | Size Specification | Measuring Tools | Sample Number | | | | | | | Judgment result | |
|-------------|--------------------|-----------------|---------------|-------|-------|----|----|----|----|-----------------|----|
| | | | 1# | 2# | 3# | 4# | 5# | 6# | 7# | OK | NG |
| ① | 1.0MM | Thickness gauge | 1.05 | 1.0 | 1.0 | | | | | √ | |
| ② | 200.0MM | Vernier caliper | 200.1 | 200.0 | 200.0 | | | | | √ | |
| ③ | 400.0MM | Vernier caliper | 400.0 | 400.0 | 400.0 | | | | | √ | |

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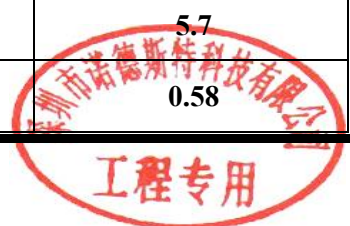
Material Certificate

Product Name: Thermal Conductive Silicone UL Number E338508, NDST-CP120.

Material composition: High-purity mixed silicone rubber, combined and developed in proportion with specially formulated imported materials for heat dissipation, fire resistance, etc.

There are main physical characteristic parameters:

| Project | unit | Test method | Test value |
|----------------------|---------|-------------|------------------|
| Hardness | Shore C | ASTM D2240 | 25±5 |
| Density | g/cc | ASTM D792 | 2.8 |
| Tear strength | KN/ m | ASTM D624 | 1.9 |
| Tensile strength | MPa | ASTM D412 | ≥0.25 |
| Elongation | % | ASTM D412 | ≥70 |
| Breakdown Voltage | Kv/mm | ASTM D149 | ≥6Kv |
| Volume resistivity | Ω -cm | ASTM D257 | ≥10 ⁸ |
| Temperature range | ℃ | EN344 | -50℃~150℃ |
| Weight loss | % | @200℃ 240H | ≦1.0 |
| Fire resistance | -- | UL-94 | V-0 |
| Thermal conductivity | W/m.k | ASTM D5470 | 3.0W |
| Dielectric constant | @1MHz | ASTM D150 | 5.7 |
| Thermal resistance | ℃-in2W | ASTM D5470 | 0.58 |



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Packaging instructions:

- 1. Product Name: Blue thermal conductive silicone pad
- 2. Product specifications: 200 * 400 * 1.0MM.
- 3. Minimum package quantity: 60PCS.
- 4. Quantity per box: 60PCS*1 pack = 60PCS

Packaging illustration



Products to be packaged



Place the product into a PE plastic bag and attach the inner packaging label



Place products with the inner labels attached into cartons, 60 PCS per carton



Seal the box after packing and attaching the external label and ROHS label

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NDST-CP120 thermal conductive silicone gel is a high-purity kneaded silicone gel, compounded with specially formulated imported materials for heat dissipation and fire resistance in certain proportions, and processed with special techniques. It has single-sided self-adhesion, enhanced breakdown voltage resistance, and is a very soft thermal conductive silicone pad with excellent compressibility. It can make close contact with electronic components, effectively reducing interfacial thermal resistance, with excellent thermal conductivity performance. It can work stably in the range of -50°C to 150°C, while also meeting UL94V0 flame retardant requirements.



CP-120-T150 Series Thermal Conductive Silicone Pads
Thermal conductivity 1.5W/m.k
Double-sided adhesive
Excellent electrical insulation
Shockproof and vibration damping
Good temperature resistance
Highly compressible, soft and elastic



CP-120-T200 Series Thermal Adhesive
Thermal conductivity 2.0 W/m·K
Adhesive on both sides
Excellent electrical insulation
Shock and vibration resistant
Good temperature resistance
Relatively high cost performance



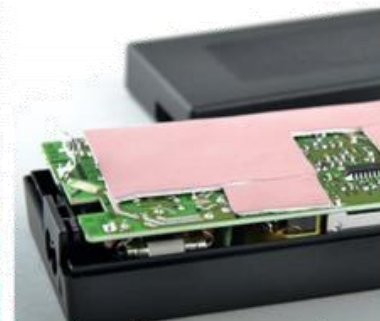
CP-120-T300 Series Thermal Adhesive
Thermal conductivity 3.0 W/m·K
Double-sided adhesive
Good electrical insulation
Shockproof and vibration damping
Good temperature resistance
High cost-performance



CP-120-T500 Series Thermal Adhesive
Thermal conductivity 5.0 W/m.K
Double-sided adhesive
Excellent electrical insulation
Good temperature resistance
High heat dissipation performance



CP-120-T800 Series Thermal Adhesive
Thermal conductivity 8.0 W/m.K
Double-sided natural adhesion
High electrical insulation properties
Low stress applications
Good temperature resistance



CP-120-B250 Series Thermal Adhesive
Thermal conductivity 2.5 W/m.K
High electrical insulation
Naturally adhesive on one side
Low stress applications
Good temperature resistance
High thermal conductivity while also being flexible

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