



# Structural Layout Auxiliary Materials Acknowledgement

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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 * 5.0/MM
CLIENT PART NO.	C2837509
LTD. NO.	NDST-DRJCP120-50300
DATE NO.	2021-05-31

<b>Manufacturer</b>	TECHNICAL	QUALITY	PROJECT	DEVELOPING
	袁素萍	夏艳丽	彭彦华	彭春华

<b>Customer side</b>	Material Engineer	Engineer	Approval	R&D System



### Supplier Information

Company Name: Shenzhen Nordest Technology Co., Ltd.

Telephone: 0755-29527673

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Material Code: C2837509	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 * 5.0/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	5.0MM	Thickness gauge	5.05	5.0	5.0					√	
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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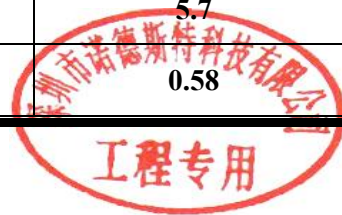
## Material Certificate

**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 <sup>8</sup>
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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## Shenzhen Nordest Technology Co., Ltd.

### Packaging instructions:

1. Product Name: Blue thermal conductive silicone pad
2. Product specifications: 200 \* 400 \* 5.0MM.
3. Minimum package quantity: 12PCS.
4. Quantity per box: 12PCS\*1 pack = 12PCS

### 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, 12 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**  
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**  
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**  
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**  
Thermal conductivity 8.0 W/m.K  
Double-sided natural adhesion  
High electrical insulation properties  
Low stress applications  
Good temperature resistance  
High thermal conductivity



**CP-120-B250 Series Thermal**  
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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