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

PRODUCT SPECIFICATION SHEET

CUSTOMER	Shenzhen Nordest Technology Co., Ltd.
CESCRIPTION	Blue thermal conductive silicone pad
TYPE/MODEL	100 * 100 * 1.0/MM
CLIENT PART NO.	C53552438
LTD.NO.	31.000.300.1781
DATE NO.	2026-01-30

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

Customer side	Material Engineer	Engineer	主管审批 Approval	R&D System

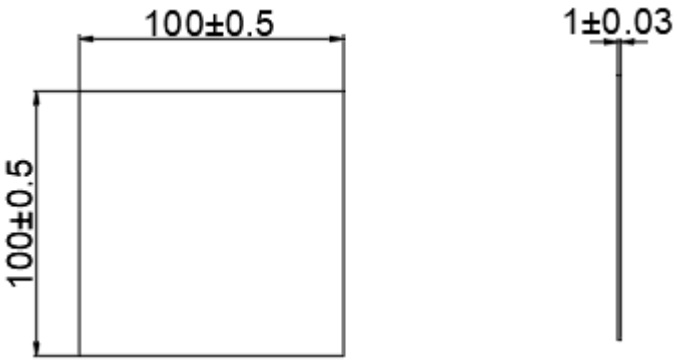
深圳市诺德斯特科技有限公司 工程专用

Supplier Information
Company Name: Shenzhen Nordest Technology Co., Ltd.
Telephone: 0755-29527673
Fax: 0755-29527674

Structural Layout Auxiliary Materials Acknowledgement

Material Code: C53552438	Acknowledgment Date: 2026-01-30	Version	Modify content
Material Name: Blue thermal conductive silicone pad	Product Model: NDST-CP120	001	Initial release
Size:100 * 100 * 1.0/MM			
Tolerance range: +/-0.5 Thickness: +/-0.03			
Material: Silicone			
Color:Blue			
Print color: None			
Compliant with ROHS requirements: ■YES □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	1.02	1.0	1.0					√	
②	100.0MM	Vernier caliper	100.1	100.0	100.0					√	
③	100.0MM	Vernier caliper	100.0	100.0	100.0					√	

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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	$\geqslant 10^8$
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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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℃ to 150℃, 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

工程专用

Supplier Information
Company Name: Shenzhen Nordest Technology Co., Ltd.
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UL Product iQ®

Plastics -Component

COMPANY

SHENZHEN NUODE SITE TECHNOLOGY CO LTD

Faerda

Gongyeuyuan

Junxinlu Junzhibu

Guanlan

Shenzhen,Guangdong 518000 China

E33850

DSG	Color	Min Thk mm	Flame Class	HWI	HAI	Elec Str	RTI Imp	Mech Str	HVTR	D495	CTI
Silicone Rubber (SIR)furnished as Sheets,rolls											
NDST-CP120	ALL	0.2	V-0	-	-	150	150	150	-	-	-
		0.6	V-0	-	-	150	150	150	-	-	-
		3.0	V-0		-	150	150	150	-	-	-
NDST-SB-110	ALL	0.2	V-0	-	-	150	150	150	-	-	-
		0.6	V-0		-	150	150	150	-	-	-
		3.0	V-0		-	150	150	150		-	
NDST-SP-001	ALL	0.2	V-0	-	-	150	150	150	-	-	-
		0.6	V-0		-	150	150	150	-	-	-
		3.0	V-0	-		150	150	150	-	-	-
NDST-SPT	ALL	0.2	V-0	-	-	150	150	150	-	-	-
		0.6	V-0	-	-	150	150	150	-	-	-
		3.0	V-0	-	-	150	150	150	-	-	

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Last Updated on 2024-08-12

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