

# Silicone Thermal Putty Pad / XK-P45-Putty

## Introduction

High thermal performance and reliability for irregular surface, excellent flowability and gap filling capacity under low bearing capacity and high compressive load

## Features

- High reliability
- High compressibility
- Low bearing capacity



### 1. Product properties

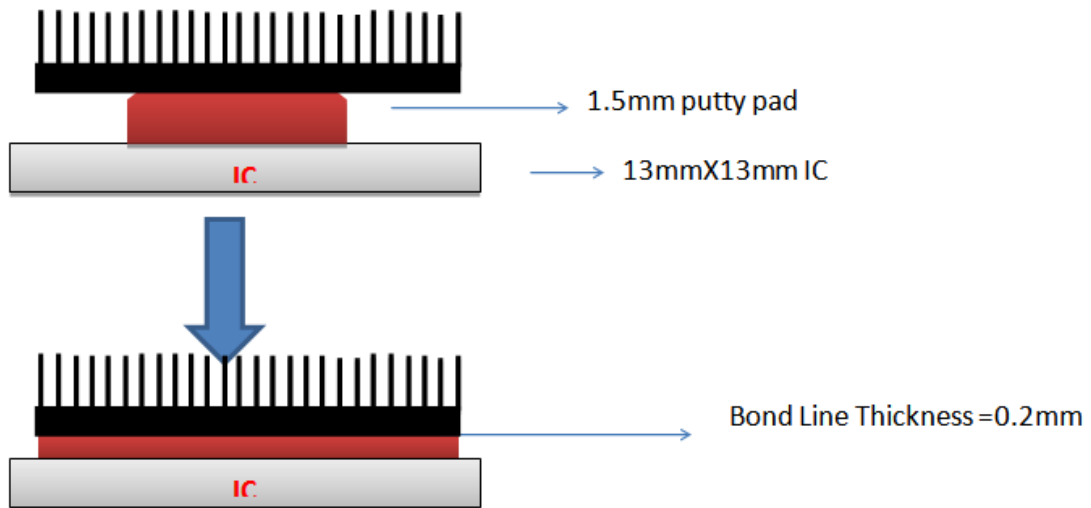
	XK-P45-P	Unit	Test Method
Thickness	1.0/ 1.5	mm	
Color	Light Gray		Visual
Construction	Silicone		
Op. temp. range	-45~150	°C	
Density	3.1	g/cm <sup>3</sup>	ASTM D792
Thermal Conductivity	4.5	W/mK	ASTM D5470
Breakdown Voltage	15	KV/mm	ASTM D149
Volume Resistance	10 <sup>10</sup>	Ohm-cm	ASTM D257
Total Mass Loss	<0.4%	%	ASTM E595
Tensile strength	Na	Psi	ASTM D412
Elongation	Na	%	ASTM D412
Flame Rating	V-0		UL-94
REACH/RoHS Compliant	Yes		REACH/ RoHS

### 2. Thermal properties

	XK-P45-P
RA	Kin <sup>2</sup> /W
compress 30%	0.30
compress 40%	0.26
compress 50%	0.23
compress 70%	0.18
compress 90%	0.15

### 3. The Compression Load

	XK-P45-P
	Pressure(psi)
compress 30%	10
compress 40%	26
compress 50%	45
compress 70%	55
compress 90%	75



$$\begin{aligned}
 X &= \sqrt{(BLT \times IC \text{ Area}) / 1.5mm} \\
 &= \sqrt{(0.2mm \times 13mm \times 13mm) / 1.5mm} \\
 &= 4.7
 \end{aligned}$$

**USE 5mm X 5mm @ 1.5mm Thickness**