

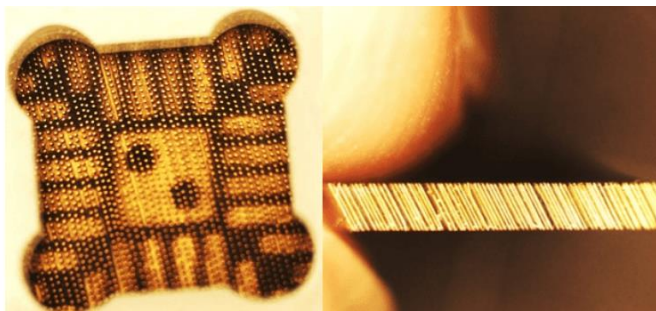
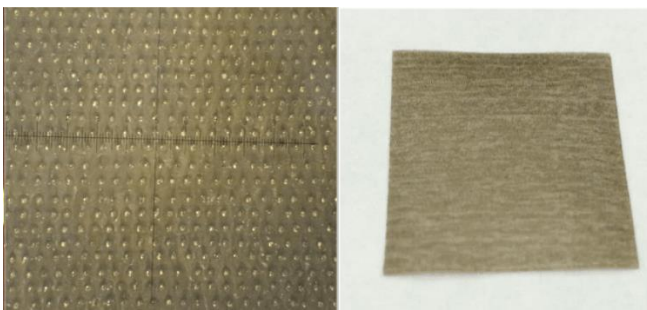
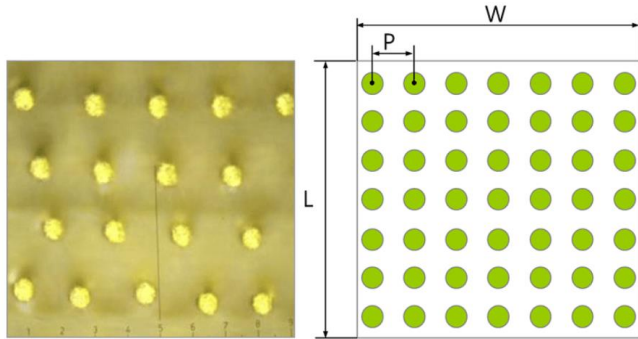


ZMat Elastomeric Contact Matrix

Z-AXIS Connector Company

345 Ivyland Road Warminster, PA 18974
(267) 803-9000 FAX (267) 803-9004

www.zaxisconnector.com

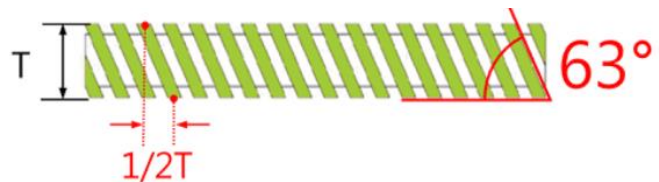


ZMat Introduction

- 23 μ m diameter metal pins are embedded into a silicone rubber matrix via proprietary techniques
- P0.05mm spacing:
 - Each individual pin provides a conductive path along the vertical axis while remaining insulated from adjacent pins
- Applications:
 - Programming and testing of BGA, LGA, QFN, QFP, CSP, TSOP, and other IC packages
 - PCB-to-PCB junctions
 - DRAM and motherboard testing
 - Usage cases requiring finer pitch than traditional test pins can achieve

Features

- Ultra-low electrical resistance
- Excellent connectivity properties
- Good compressibility and elasticity
- High-reliability replacement for conductive films
- Exceeds the limitations inherent to traditional pogo pins
- Superior electrical properties vs. pressure conductive rubber (PCR) and anisotropic conductive film (ACF)



Item	Units	Values
Contact resistance	Ω	≤ 0.1
Current carrying capacity	mA/electrode	500(*)
Insulation resistance (DC 500V)	$M\Omega$	$1 \times 10^3 \leq$
Recommended operating temperature	$^{\circ}C$	-35- 100
Hardness	Shore A	≤ 70
Elongation *10 pins in contact with electrode	%	≥ 150
Compression Set Resistance (150 $^{\circ}C$ /22hrs)	%	30

Pin diameter (μ m)	23
Width W (mm)	max : 50.0 \pm 1.0 · min : 5.0 \pm 0.5
Length L (mm)	max : 50.0 \pm 1.0 · min : 5.0 \pm 0.5
Thickness T (mm)	max : 2.0+0.05 · min : 0.20+0.05
Pitch P (mm)	0.05 \pm 0.03