



## SNC50-HXP FORM-IN-PLACE

A lower deflection force, nickel/graphite filled heat cure silicone Form-In-Place grade.

Thanks to its unique filler technology, SNC50-HxP shows the lowest shore hardness in Laird's heat cure FIP resulting in minimum required compression force when mounting assemblies.

It shows very good shielding performance along with good compression set ending in overall long term reliability.

Laird's Form-In-Place is an automated system for dispensing conductive elastomer EMI shielding and grounding gaskets onto metal or plastic substrates.

All Laird Paste can be dispensed to triangle shape cross section directly.

## TYPICAL VALUES

CATEGORIES	TEST METHOD	UNITS	SNC50-HXP
<b>Elastomer</b>			Silicone
<b>Filler type</b>			Nickel/Graphite
<b>ELECTRICAL PROPERTIES</b>			
<b>Volume Resistivity</b>		ohm-cm	0.025
<b>Shielding Effectiveness</b>	MIL-DTL-83528C		
<b>200 MHz to 10 GHz</b>	Para. 4.5.12	dB	>100
<b>PHYSICAL PROPERTIES</b>			
<b>Hardness</b>	ASTM D2240	Shore A	50
<b>Density (uncured)</b>	ASTM D792	g/cm <sup>3</sup>	1.8
<b>Compression Set</b>	ASTM D395	%	20
<b>Adhesion Strength (AI)</b>	LT-FIP-CLE-03		200
<b>Compression-Deflection<sup>(a)</sup></b>	LT-FIP-CLE-07		
<b>at 20% compression</b>		lb/in	2.6
<b>at 40% compression</b>		lb/in	9.5
<b>Temperature Range</b>		°C	-50°C to 125°C
<b>UL Flammability Rating</b>	UL94(between AI)		V0 (pending)
<b>CURING REQUIREMENTS</b>			
<b>Cure Conditions</b>			125 °c min
<b>Full Cure<sup>(b)</sup></b>			2 hours

(a) Compression-deflection bead size 0.7mm (H) x 0.80mm (W)

(b) Time to effectively cure a bead will necessarily depend on individual conditions, including but not limited to bead size, shield size and weight, oven capacity, and oven ramp-rates.



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### EMI-DS-SNC50-HXP

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