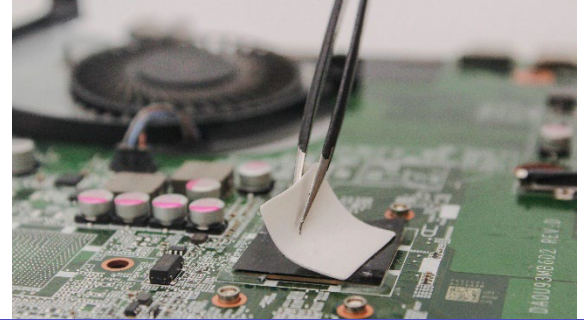


## KEY FEATURES

- ≡ Electrically insulating
- ≡ Non-silicone, non-reactive, non-curing system with no resin-filler separation
- ≡ High thermal stability, with continuous operation up to 135°C
- ≡ High thermal conductivity
- ≡ Facilitates reworkability of the thermal management system
- ≡ Easy pick and place application without residue/mess
- ≡ Highly compressible to minimize contact resistance without high force



## TECHNICAL SPECIFICATIONS

Test	Description	Min	Typ	Max	Units
Thermal Conductivity	ASTM D5470 (at 20 psi)		18		W/m*K
Thermal Resistance vs Pressure [1]	ASTM D5470	0.67 at 140 kPa (20 psi)			K-cm <sup>2</sup> /W
Compression-Deflection [2]	Modified ASTM C165 In-House Method	17% at 210 kPa (30 psi)			
Electric Resistance	ASTM D257, volume resistivity	1x10 <sup>14</sup>			Ohm-cm
Dielectric Constant/Dielectric Loss @ 1MHz	ASTM D150/ Thermexit In-House Method	4.73/0.009			
Dielectric Strength (Voltage Breakdown)	ASTM D149	7875			Vac/mm
Operating Temperature		-40		135	°C
Storage Temperature/Shelf Life	In packaging, stored between 10-40°C	12			months
Weight Loss (Thermal Stability)	Per TGA (Thermogravimetric Analysis)	<0.2% at 150°C			
Outgassing CVCM (Collected Volatile Condensable Materials)	Per ASTM E595	0.07			Wt%
Outgassing TML (Total Mass Loss)	Per ASTM E595	0.20			Wt%
Hardness	Per ASTM D2240	77		87	Shore 00
Flammability [3]	UL94 Vertical	UL94 V-0			
Length		50			mm
Width		50			mm
Thickness		0.5		5	mm
Density (Specific Gravity)	In-house method based on ASTM D792	1.71			g/cm <sup>3</sup>
Color		White			
Adhesive Layer		No			
<b>Notes</b>		<b>Standard length/width is 50mm x 50mm. Refer to Product Variation Catalog for complete list sizing</b> <b>These materials are not deemed by Nanoramic Laboratories to require an SDS.</b>			
	[1]- Using unit thickness of 0.5mm. Additional data available upon request.				
	[2]- Using unit thickness of 2.0mm. Additional data available upon request.				
	[3]- Using unit thickness of 2.5mm. Additional data available upon request.				

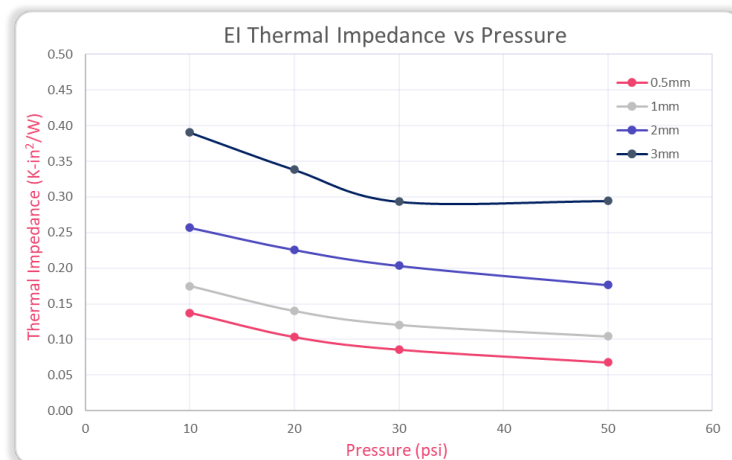
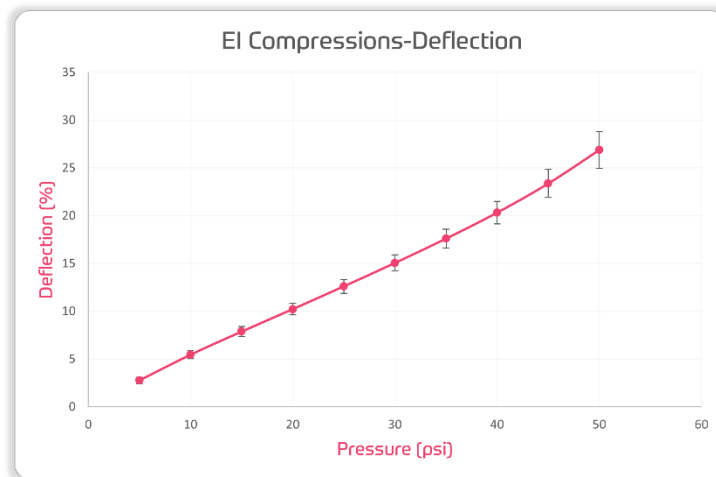
### Disclaimer

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## TYPICAL APPLICATIONS

- ☰ Consumer electronics
  - ☰ Power supplies
  - ☰ Automotive electronics
  - ☰ LEDs and Lasers
- ☰ Motor controls
  - ☰ High power semiconductors
  - ☰ 5G Telecom Infrastructure
  - ☰ Batteries or energy storage devices



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