



# Laird™ Tflex™ CR910

2-Part Dispensable Gap Filler

for transferring heat in high-demanding electronic equipment

## Description

Tflex™CR910 is a soft, compliant, very high thermal conductivity, two-part dispensable gap filler providing a low thermal resistance and high reliability. This dispensable gap filler minimizes stress on components during assembly while providing the reliability of a traditional thermal pad.

Tflex™ CR910 is ideal for application where large gap tolerances are present, meeting vertical shock and vibrate requirements, typical of stringent industry requirements.

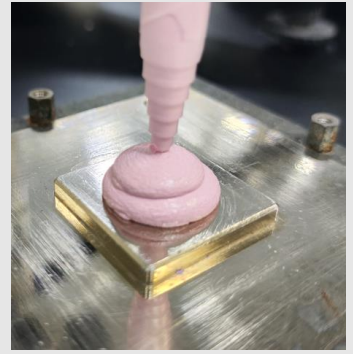
**The 1:1 mix is easily dispensable through a wide variety of off the shelf dispensing equipment. The experts at Laird can help design the system that is right for you.**

## Regional product availability

- North America
- Europe
- Asia Pacific

## Advantages

- Thermal conductivity 9.2W/mK
- Dispensable and compliant
- Easily reworkable
- Ideal for large gaps
- Meets RoHS and REACH requirements



## MAIN PROPERTIES

TYPICAL PROPERTIES	VALUE	TEST METHOD
<b>Composition</b>	Two-part ceramic filled dispensable gap filler	
<b>Color</b>	Part A: red / Part B: grey	Visual
<b>Mix ratio</b>	1:1	
<b>Flow rate with 17-element mixer at 90psi, steady state</b>	5g/min	Laird method
<b>Shelf life</b>	6 months	Laird method
<b>Cure condition</b>	2 hours @80°C, or 24 hours @23°C	Laird method
PROPERTIES AFTER CURING		
<b>Thermal conductivity</b>	9.2W/mK	Hot Disk
<b>Density</b>	3.14 g/cc	Helium pycnometer
<b>Hardness (3 sec)</b>	65 Shore 00	ASTM D2240
<b>Min. bond line thickness</b>	200µm	Laird method
<b>Rth @1.5mm, 50°C, 40psi</b>	0.17 °C-in <sup>2</sup> /W	ASTM D4570
<b>Dielectric breakdown voltage @1mm</b>	10kV AC	ASTM D149
<b>UL flammability rating</b>	V0	UL

Note: data for design engineer guidance only; observed performances may vary in application; thermal expansion variation is to be taken into consideration. Engineers are reminded to evaluate the material in application.

## PACKAGING

TYPE	FILL VOLUME	FILL WEIGHT
50cc dual cartridge (2x25cc)	45cc	141g
200cc dual cartridge (2x100cc)	183cc	575g
400cc dual cartridge (2x200cc)	365cc	1146g
600cc separate cartridges (2x300cc)	600cc	1884g
1200cc separate cartridges (2x600cc)	1200cc	3768g

### Safe handling information

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard information. For material safety datasheet, contact your local Laird sales office.

### Storage

Tflex™ CR910 should be stored in original product packaging until ready for use. Recommended storage conditions are 0°C to 35°C, with no special requirement on relative humidity when stored in original packaging. For cartridges, the direction to store the material is referred to the arrow from carton or sticker as in vertical tip-down dispense orientation). It's very important to keep the correct storage direction following packaging indication.

### Limitations

Customer must evaluate Laird™ products and make their own determination as to fitness of use in their particular applications.

### Disposal considerations

Dispose in accordance with all local, state and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner. It is the user's responsibility to verify that treatment and disposal procedures comply with local, state and federal regulations. Contact your Laird representative for more information.

### Health and environmental information

To support customers in their product safety needs, Qnity has an extensive product stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area. For further information, please see our website, [www.qnityelectronics.com](http://www.qnityelectronics.com), or consult your local Laird representative.

## For more information on Tflex™ CR910 or other Laird products, please visit our website, [www.laird.com](http://www.laird.com).

The information set forth herein is furnished free of charge, is based on technical data that Qnity believes to be reliable and represents typical values that fall within the normal range of properties. This information reflects our knowledge of the subject at the date of publication and may be subject to revision. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skills, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

CAUTION: Do not use Qnity materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been approved by Qnity for such use in accordance with the Qnity Medical Applications Policy. Please ask your Qnity representative for a copy of the current Qnity Medical Applications Policy and further guidance.

Qnity's sole warranty is that our products will meet our standard sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, QNITY SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT. QNITY DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

