

PRODUCT DESCRIPTION

Tflex™ CR350S is an ultra-soft, compliant, high thermal conductivity, two-part dispensable gap filler providing a low thermal resistance and high reliability.

This dispensable gap filler minimizes the bonding force between the components and heatsink during disassembly which make it easy to rework. Tflex™ CR350S is ideal for application where large gap tolerances are present, meeting vertical shock and vibrate requirements, typical of the automotive industry.

The 1:1 mix is easily dispensable through a wide variety of dispensing equipment. It is an A+B putty material that cures in place after dispensing and mixing to perfectly fill the gap. The experts at Laird can help design the system that is right for you.

FEATURES AND BENEFITS

- Thermal Conductivity 3.6W/mK
- Dispensable and Compliant
- Easily reworkable
- Ideal for large gaps
- Meets ROHS and REACH requirements

APPLICATIONS

- Automotive
- Graphic chips
- Microprocessors
- Telecom base stations

MAIN PROPERTIES

TYPICAL PROPERTIES	VALUE	TEST METHOD
Composition	Two-part ceramic filled dispensable silicone gap filler	
Color	Part A:Yellow Part B:White	Visual
Viscosity before combining (cps)	330,000	ASTM D2196
Mix ratio	1:1	
Shelf Life (month)	9	
PROPERTIES AFTER CURING		
Thermal Conductivity (W/mK)	3.6	Hot Disk
Density (g/cc)	3.15	Helium Pycnometer
Hardness (Shore 00 – 3sec)	50	ASTM D2240
Outgassing TML (weight %)	TBD	ASTM E595
Min. bond line thickness (µm)	85	Laird lab
Operating Temperature Range	-55°C to 200°C	
Dielectric Breakdown Voltage@1mm	7KV AC	ASTM D149
UL Flammability Rating	V-0	Laird LAB
Volume Resistivity	2.9 x 10 ¹⁴ ohm-cm	ISO 14309
Cure condition	2 hour@70°C, 0.5 hour@100°C	Laird LAB

American: +1.866.928.8181

Europe: +44.8031.2460.0

Asia: +86.755.2714.1166

www.laird.com

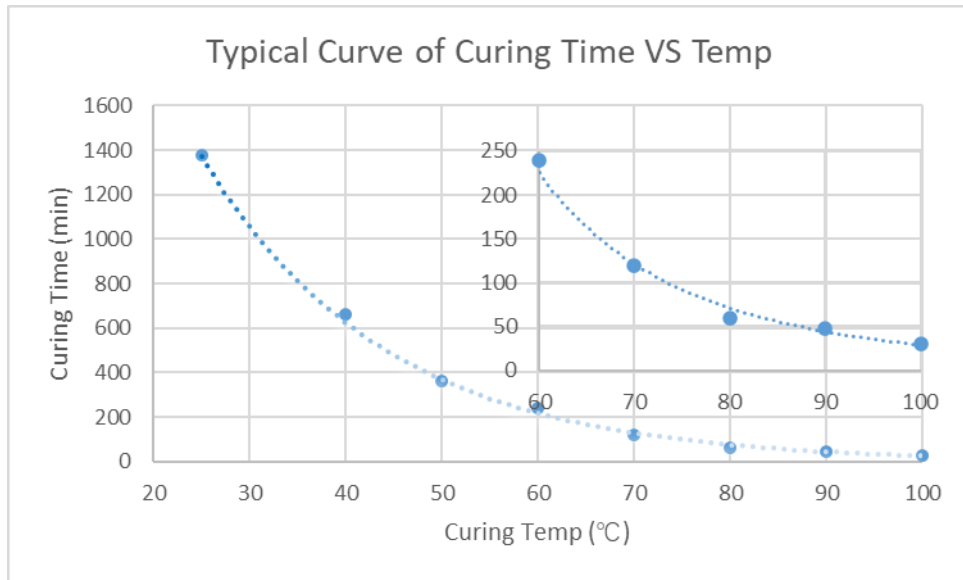
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PACKAGING

TYPE	FILL VOLUME	FILL WEIGHT
50cc duo-cartridge (2x25cc)	47cc	148g
400cc duo-cartridge (2x200cc)	387cc	1219g
600cc dual-cartridge (2*600cc)	1200cc	3780g
1 gallon pail x2	4127cc x2	13kg x2
5 gallons pail x2	6349cc x2	20kg x2

CURING PROFILE



The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.