

SilCool TIA241GF

Liquid-Dispensed Silicone Thermal Pad / Gap Filler

Description

SilCool TIA241GF gap filler is a 2-component, soft, thermally conductive silicone material used to dissipate heat from electronic devices. Its non-slumping pasty consistency offers physical stability that can allow improved processing. SilCool TIA241GF gap filler can be used as a liquid dispensed alternative to pre-fabricated thermal pads in a broad array of thermal designs for electronic applications.

Key Features and Typical Benefits

- Good thermal conductivity
- Fast, low temperature cure
- Convenient 1:1 mix ratio by weight
- Retained softness after cure for enhanced stress relief during thermal cycling
- Excellent slump resistance (stays in place)
- Repairable
- Flame retardant: UL94V-0 equivalent
- Glass bead options available (180 & 250µm) for bond line thickness (BLT) control

Typical Physical Properties

Uncured Properties	SilCool TIA241GF (A) gap filler	SilCool TIA241 GF (B) gap filler
Appearance (Part A & B)	Blue	Pale Blue
Viscosity ⁽⁴⁾ Pa•s	250	130
Mix Ratio by Weight	1:1	
Viscosity ⁽⁴⁾ after Mixing Pa•s	130	
Thixo Index	2.6	
Work Life at 23 °C Hours	3	
Cure Conditions Hours		
at 100 °C	0.25	
at 70 °C	0.50	
at 23 °C	24	

Cured Properties (30 minutes at 100 °C)		
Appearance		Blue
Density (23 °C)	g/cm ³	3.14
Thermal Conductivity ⁽¹⁾	W/m•K	4.1
Thermal Resistance ⁽²⁾	mm ² •K/W	30 (BLT: 80µm)
Hardness (Type E)		45
Hardness (Shore 00)		70
Tensile Strength	MPa	0.2
Elongation	%	40
Volume Resistivity	MΩ•m	1.0 x 10 ⁴
Dielectric Strength	kV/mm	14
CTE ⁽³⁾	ppm/C°	110
Low Volatile (D ₄ -D ₁₀)	ppm	150
Flame Retardant	(UL94)	V-0 (equivalent)
Relative Temperature Index	(RTI)	150 °C (equivalent)

Contact Information

For product prices, availability, or order placement, contact our customer service at [Momentive.com/Customerservice/](https://www.momentive.com/Customerservice/)

For literature and technical assistance, visit our website at: www.momentive.com

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