

127-20 THERMAL INTERFACE MATERIAL DATA SHEET

EXTREME PERFORMANCE PHASE CHANGE THERMAL COMPOUND

The 127-20 Series is an advanced thermal interface material, formulated as a hybrid phase change material without diluents or solvents for optimal performance. This dispensable, screen-printable compound achieves ultra-low bond line thickness and unmatched thermal conductivity.

Engineered to resist pump-out, outgassing and phase separation, the **127-20 Series** eliminates concerns over silicone deposition on sensitive optics and electronics. It meets the demanding thermal and reliability needs of high-speed chipsets and graphic processors while remaining halogen-free and fully RoHS and REACH compliant.

With its stay-put viscosity, **The 127-20 Series** is ideal for precision application in the most complex assemblies. Experience thermal excellence with no tradeoffs in stability or safety - upgrade to our **127-20 Series** for your next-generation designs.

FEATURES

- High thermal conductivity on par with metallic TIMs(20 W/m-K)
- · Non-evaporative materials with minimal pump out
- · Nonconducting & nonreactive for use on any alloy/metal
- · Ultra-low BLT
- · 2.5 Year shelf life

APPLICATIONS

- Interface for semiconductors requiring low pressure or spring clamp mounting
- Thermal sensors, TEC modules, thermal wells
- · IGBT's. LED
- Power Transistors, diodes, power resistors

SIZE

Part Number: 127-20 (10cc Syringe)
Other sizes available upon request



TYPICAL PROPERTY	RESULTS
Туре	Silicone free, hybrid phase change paste
Special future	Extreme thermal conductivity. Zero pump out. No-solvent
Color	Light grey
Viscosity,cps	280000
Specific gravity	2.5
Operating temperature range.°C	-50°C to 200°C
Shelf life @25C	2.5 Years
THERMAL	
Thermal conductivity (W/m-K)	20
Recommended maximum temperature	130°C
Phase transition temperature	Above 150°C
ELECTRICAL	
Breakdown voltage (VAC/mil)	200
Outgassing, % TML	0.15% TML
Volume resistivity	10 ¹⁴ ohm-cm

Disclaimer: All statements, technical information, and recommendations related to Wakefield Thermal products are based on information believed to be reliable, but accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You must assume all risks and liability associated with such use. Wakefield Thermal will not be liable for any indirect, special, incidental or consequential loss or damage arising from this product, regardless of legal theory asserted.

Installation Instructions: 1. Clean mating surfaces completely with isopropyl alcohol & allow them to fully dry. 2. Apply a single line or cross of material in the center of one surface, using about 2/3 the length. 3. Join surfaces while rotating and sliding to evenly spread the material 4. Apply continuous pressure to fully matte the surfaces without separating. 5. Thermal cycle above 150°C to activate the phase change properties.

Safety Information: Should be used with caution. Avoid contact with eyes and skin by wearing gloves and safety goggles. Do not ingest. Read all safety data sheets and instructions thoroughly prior to use.