

**Brady Tsoft3S-240 Thermally Conductive Material Gap Filler**

TDS No. BT-8627  
Effective Date: 08/03/2011

**Description:**

**GENERAL**

**Colour:** Grey with pink backing  
**Binder:** Silicone  
**Filler:** Aluminium Oxide and Boron Nitride  
**Reinforcement:** Fiberglass

TSOFT3S-240 is a soft material designed to conduct heat away from uneven surfaces. It is firmer and more thermally conductive than TSOFT series. The conformability allows for intimate contact over rough surfaces and eliminates air.

**APPLICATION**

Tsoft® materials are thermally conductive insulators typically mounted between a transistor and a heat sink offering low thermal resistance as well as electrical insulation. Tsoft® materials do not require thermal grease. Using Tsoft® materials can lead to dramatic production cost reductions and improved product uniformity eliminating messy grease mica application, contamination, mica cracking, silicone migration and drying out.

Some of the common applications would include:

- Computer system and telecommunication peripherals
- Power conversion
- Transfer heat from ICs/PCBA/motor to heat sink, chassis or heat spreader
- Automotive electronics

**REGULATORY/AGENCY APPROVALS**

RoHS: BT-8627 (Tsoft3S-240) is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

**Details:**

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D374	240mil (6.0mm)
Specific Gravity	ASTM D792	2.2 g/cm <sup>3</sup>
Hardness (Shore OO)	ASTM D2240	60
<b>ELECTRICAL PROPERTIES</b>		
Dielectric Constant, 60Hz	ASTM D150	5.1
Volume Resistivity	ASTM D257	5.0 E+14 Ohm.cm
Dissipation factor, 60Hz	ASTM D150	0.08
Dielectric Strength	ASTM D149 type1	30KVolts
<b>THERMAL PROPERTIES</b>		
Thermal Conductivity @10psi	ASTM D5470	2.0W/mK
Continuous Use Temperature	MIL-1-49456A	-60C to 200C
Weight Loss, 24hrs@200C	IMTM 1567	<1%
Thermal resistance @10psi	ASTM D5470	6.7°C.In <sup>2</sup> /Watt

**Available Forms:**

Tsoft® thermal management materials are available in roll form, sheet form, standard and special configurations.

**Trademarks:**

ASTM: American Society for Testing and Materials (U.S.A.)  
UL: Underwriters Laboratories Inc. (U.S.A.)

**Note:** All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady

customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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