

**Brady T1200-7 Thermally Conductive Material Tsoft® Elastomeric Thermal Pad**

TDS No. BT-8655  
Effective Date: 08/03/2011

**Description:**

**GENERAL**

T1200-7 is a fiberglass reinforced, high performance, economical boron nitride filled silicone gasket designed for use where low thermal resistance is required.

**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:

- Power conversion
- Automotive electronics
- Consumable electronics

**COMPLIANCE**

BT-8655 is RoHS compliant in accordance to the EU Directive 2002/95/EC and its amendments.

BT-8655 is QMFZ2 recognized and V-0 rated as per UL94 standard. Refer to File# E316839 under *Certifications* at [www.ul.com](http://www.ul.com)

**Details:**

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Colour	-	Green
Binder	-	Silicone elastomer
Reinforcement	-	Fiberglass
Filler	-	Boron nitride
Thickness	ASTM D374	7 mil
Specific Gravity	ASTM D792	1.6 g/cm <sup>3</sup>
Hardness (Shore A)	ASTM D2240	80
Tensile Strength	ASTM D828	6500 psi (45 N/mm <sup>2</sup> )
Elongation	ASTM D828	2-4 %
Breaking Strength	ASTM D828	11.4 KN/m
Cut-Thru Resistance	-	120 lbs (0.53 KN)
<b>ELECTRICAL PROPERTIES</b>		
Dielectric Strength	ASTM D149	6500 volts
Volume Resistivity	ASTM D257	1 x 10 <sup>15</sup> ohm-cm
Dielectric Constant	ASTM D257	<ul style="list-style-type: none"> <li>• 2.85</li> <li>• 2.75</li> </ul>
Dissipation Factor	ASTM D257	<ul style="list-style-type: none"> <li>• 0.0010</li> <li>• 0.0009</li> </ul>
<b>THERMAL PROPERTIES</b>		
Thermal Impedance	ASTM D5470	0.28 C-in <sup>2</sup> /watt
Thermal Conductivity	ASTM D5470	1.3 W/m-K
Continuous Use Temperature	MIL-I-49546A	-60°C to +180°C
Weight Loss, 24hr @200°C	Modified UL746B	< 1%

**Available Forms:**

Tsoft® thermal management materials are available in 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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

**WARRANTY**

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

Copyright 2016 Brady Corporation Asia Pte. Ltd. | All Rights Reserved  
Material may not be reproduced or distributed in any form without written permission.

---

Brady Asia | 1 Kaki Bukit Crescent | Singapore 416236 | Singapore | Tel: 65 6477.7261 | Fax: 65 6748.7248