

## **Transtherm® T1200 - 9**

**Thermally conductive material**

### **Product Description**

*Transtherm® T1200 - 9* is a fiberglass reinforced, high performance, and economical boron nitride filled silicone gasket designed for use where low thermal resistance is required. *Transtherm® T1200 - 9* is available dry or with a pressure sensitive adhesive.

### **Application**

*Transtherm®* is a thermally conductive insulator typically mounted between a transistor and a heat sink and offers low thermal resistance and good electrical insulation. *Transtherm®* materials do not require thermal grease. Since greased mica, and other two-component systems do require thermal grease, using *Transtherm®* 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.

### **Product Data**

#### **Physical Properties:**

Color		Green
Thickness, mils	ASTM D374	9.0 +/-1
micrometers		23 +/- 2.5
Binder		Silicone
Reinforcement		Fiberglass
Filler		Boron Nitride
Specific Gravity		1.6
Hardness, Shore A	ASTM D2240	80
Tensile Strength, PSI	ASTM D828	6500
N/mm <sup>2</sup>		45
Elongation, percent	ASTM D828	2-4
Breaking Strength, lb./inch	ASTM D828	65
N/cm		114
Cut-Thru Resistance, lb .force	IMTM 1566	120
KN		.53

#### **Transtherm® T1200 - 9**

#### **Electrical Properties:**

Dielectric Strength, volts	ASTM D149	3000
Volume Resistivity, ohm-cm	ASTM D257	1 E 15
Dielectric Constant, 60 Hz	ASTM D257	2.85
1000 Hz		2.75
Dissipation Factor 60 Hz	ASTM D257	.0010
1000 Hz		.0009

#### **Thermal Properties:**

Thermal Resistance C-in <sup>2</sup> /watt	ASTM D5470	.36
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## Shelf Life

Shelf life is in excess of one year when stored at room temperature.  
Adhesive shelf life at 70°F is six months.

## Specifications

The properties shown are typical values only, and should not be used as the basis for preparing specifications. Contact Brady for assistance in preparation of specifications for your specific application.

## Safety Precautions

Material Safety Data Sheets (MSDS) defining the known hazards and describing safety precautions appropriate for this product are available upon request from Brady.

## Availability

*Transtherm*® products are available from Brady. For more information about these products contact Brady, N144 W5690 Pioneer Road, Cedarburg WI 53012. (800) 662-5688

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