

## Transtherm® TF6-5

### Thermally Conductive Coated Film

#### Product Description

Transtherm® TF6-5 is thermally filled Polyester coating on thermally conductive Polyimide film. This product combines the excellent high temperature and electrical characteristics that polyimide film is noted for, with the excellent thermal properties of Transtherm® materials. Transtherm® TF6-5 is available dry or with a pressure sensitive adhesive to facilitate assembly.

#### Application

Transtherm® materials do not require 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

<b>Physical Properties:</b>		
Color		Green
Thickness, mils	ASTM D374	5.0 +/- 1
micrometers		125 +/- 25
Binder		Polyester
Reinforcement		Polyimide
Specific Gravity, g/cm <sup>3</sup>		1.8
Hardness, Shore A	ASTM D2240	90
Tensile Strength, PSI	ASTM D828	5000
N/mm <sup>2</sup>		21
Elongation, %	ASTM D828	40

<b>Electrical Properties:</b>		
Dielectric Strength, volts	ASTM D149	6000
Volume Resistivity, ohm-cm	ASTM D257	1 E 12

<b>Thermal Properties:</b>		
Thermal Resistance, °C.in <sup>2</sup> /W	ASTM D5470	.22
Thermal Conductivity W/m-K	ASTM D5470	1.1
Continuous Use Temperature, °C	MIL-I-49546A	-20 to 150
Weight Loss, %	24 hr @ 200°C	<1

#### Shelf Life

Shelf life exceeds one year when stored at room temperature.

#### Available Forms

Transtherm® thermal management material is available on roll form with or without adhesive on 3 inch cores in width multiples utilizing a 24 inch width, sheet form, standard and special configurations.

## 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.

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