

Dr. Dietrich Müller GmbH, Zeppelinring 18, D-26197 Ahlhorn

## Standard Materials

### Thermally conductive adhesive tape SP 61327

**Description:** Thermally Conductive Adhesive Transfer Tape SP 61327 is designed to provide a preferential heat-transfer path between heat-generating components and heat sinks or other cooling devices. SP 61327 are tacky pressure sensitive adhesive loaded with thermally conductive ceramic fillers that do not require a heat cure cycle to form an excellent bond to many substrates. Only pressure is needed to form an excellent bond and thermal interface. The specialized chemistry of SP 61327 renders them modestly soft and able to wet to many surfaces, allowing them to conform well to non-flat substrates, provide high adhesion, and act as a good thermal interface. The specialized acrylic chemistry of SP 61327 provides for excellent thermal stability of the base polymer. The thermally conductive tape is provided on a silicone treated polyester release liner for ease of handling and die cutting. The tape offer excellent adhesive performance with good wetting and flow onto many substrate surfaces. These tape offer both good thermal conductivity and good electrical insulation properties.

Properties	Value
Color	White
Tape Type	Filled Acrylic Polymer
Tape Thickness	0.375 mm
Filler Type	Ceramic
Liner Type	Dual liner using silicone-treated polyester. Easy release PET liner is clear in color, tight side PET liner is blue in color.
Liner Thickness	1.5 – 2 µm thickness for inside or outside wound liner.

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Properties	Test method	Unit	Value
Thermal Impedance	-	C-in. <sup>2</sup> /W	1.20
Thermal Conductivity	ASTM C-177	W/m-K	0.60
Specific Gravity	-	g/cc	1.07
Surface Resistivity	ASTM D-257	Ω-cm	1.5 x 10 <sup>11</sup>
Volume Resistivity	ASTM D-257	Ω-cm	3.8 x 10 <sup>11</sup>
Dielectric Strength	ASTM D-149	Volts/mil	668
Dielectric Properties	ASTM D-150	GHz	1
Dielectric Constant	ASTM D-150	-	3.0

**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.