

## INDASOL 21025W THERMALLY CONDUCTIVE FOAMED ACRYLIC TAPE TECHNICAL DATA SHEET Page 1 of 2

| TECHNICAL DESCRIPTION   | UNIT OF MEASUREMENT |                     | TECHNICAL VALUE      |                   |
|---|---------------------|---------------------|----------------------|-------------------|
| CARRIER   |                     |                     | ACRYLIC FOAM         |                   |
| ADHESIVE  |                     |                     | ACRYLIC              |                   |
| COLOUR  |                     |                     | WHITE                |                   |
| THICKNESS   | mm                  | ins                 | 0.25                 | 0.0010            |
| RELEASE LINER   |                     |                     | PAPER                |                   |
| DENSITY OF FOAM:<br>(ASTM D-1000)   | kg/m <sup>3</sup>   | lbs/ft <sup>3</sup> | 1500                 | 94                |
| 180° PEEL ADHESION:<br>(ASTM D-3330)<br>Stainless Steel<br>Aluminium<br>Copper                          | g/25mm              | lbs/in              | 1200<br>800<br>1000  | 2.7<br>1.8<br>2.2 |
| TENSILE ADHESION:<br>(T-BLOCK TEST)<br>(ASTM D-897, Aluminium, room temp)                               | g/cm <sup>2</sup>   | lbs/in <sup>2</sup> | 9000                 | 128               |
| DYNAMIC SHEAR:<br>(ASTM D-1002, Room temperature after 24hrs)<br>Stainless Steel<br>Aluminium<br>Copper | g/cm <sup>2</sup>   | lbs/in <sup>2</sup> | 8000<br>5000<br>5500 | 114<br>71<br>78   |
| TEMPERATURE RESISTANCE<br>SHORT TERM  | °C                  | °F                  | 160                  | 320               |
| TEMPERATURE RESISTANCE<br>LONG TERM   | °C                  | °F                  | 100                  | 212               |
| LOW TEMPERATURE RESISTANCE  | °C                  | °F                  | -30                  | -22               |

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|  |                       |                      |      |       |
|--|-----------------------|----------------------|------|-------|
| SURFACE RESISTANCE:<br>(ASTM D-257)            | $\Omega/\text{cm}$    | $\Omega/\text{inch}$ | 5.0  | 12.7  |
|  | (x 10 <sup>14</sup> ) |                      |      |       |
| VOLUME RESISTIVITY:<br>(ASTM D-257)            | $\Omega/\text{cm}$    | $\Omega/\text{inch}$ | 2.0  | 5.08  |
|  | (x 10 <sup>13</sup> ) |                      |      |       |
| DIELECTRIC BREAKDOWN VOLTAGE:<br>(IEC-60243-1) | kV                    |                      | 3.75 |       |
| DIELECTRIC STRENGTH:<br>(IEC-60243-1)          | kV/mm                 | volts/inch           | 15   | 381   |
| THERMAL CONDUCTIVITY:<br>(TCi)                 | W/(m/K)               | Btu/(ft/hr/°F)       | 0.6  | 0.347 |

These tapes are thermally conductive acrylic foam tapes developed to conduct heat away from the source, thereby reducing the chance of over-heating. Typical applications are: electronic devices such as LED / PDP modules, LED signage, back-lit televisions and CPUs in desktop and laptop computers.

Material safety datasheets (MSDS) and application instructions are available upon request.

Unless stated otherwise all values given are average. All of the tapes in our range should be thoroughly tested on the substrates in the particular application they are intended for.

Industrial Adhesive Solutions Ltd will not be responsible for product failure unless full testing has been completed. The customer has to decide on the tapes suitability for the intended application.