

Electrolube® TDS100P

Thermally Conductive, Electrically Isolating Film

DESCRIPTION

Electrolube® TDS100P is a thermally conductive and electrically isolating film with a thermal conductivity of 1.0 W/m-K. The film has a high compression strength and due to the polyimide reinforcement, TDS100P is resistant to cut-through offering a very high breakdown voltage. **TDS100P** is suitable for high-torque screw applications as well as spring clip mounting.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Thermal conductivity of 1.0 W/m-K
- Very high electrical isolation strength
- Reworkable
- Smooth surface for reduced interfacial resistance
- Available in die-cut formats

APPROVALS

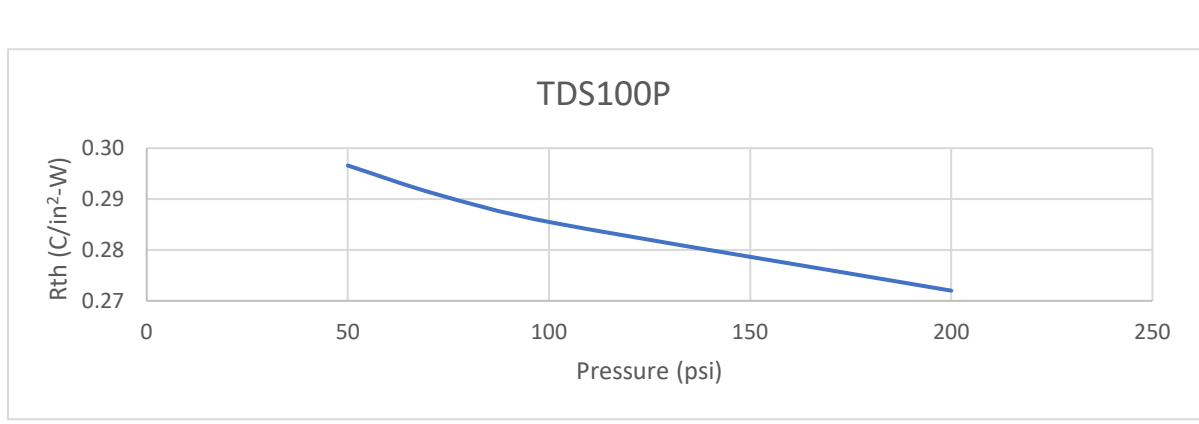
Standard	Status
RoHS	Compliant
REACH	Compliant

PRODUCT INFORMATION

TDS100P is typically converted into customer specific shapes and sizes.
Standard sheet size is 320mm x 300mm (12.6 x 11.8").
Other thicknesses are available upon request.

TYPICAL PROPERTIES

Category	Result	Unit	Test Method
Physical Property			
Color	Gray		Visual
Thickness	0.15 0.006	mm inch	-
Reinforcement Layer	Polyimide		
Density	1.6	g/cc	ASTM D792
Hardness	80	Shore A	ASTM D2240
Operating Temperature Range	-60 to +180	°C	-
Flammability Rating	Meets V-0		UL94
Electrical Properties			
Dielectric Breakdown	12	kV	ASTM D149
Volume Resistivity	$>10^{13}$	Ohm - cm	ASTM D257
Thermal Properties			
Thermal Conductivity	1.0	W/m-K	ASTM D5470
Thermal Impedance at 20 psi	0.31	°C-inch ² /W	ASTM D5470
Thermal Impedance at 100 psi	0.29	°C-inch ² /W	ASTM D5470



ADDITIONAL INFORMATION

Shelf Life: 60 Months

The product should be tested to ensure its suitability for the end application conditions.

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

www.macdermidalpha.com

<p>North America 140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460</p>	<p>Europe Ashby Park Coalfield Way Ashby de la Zouch Leicestershire, LE65 1JR, UK 44.01530.41960</p>	<p>Asia 8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365</p>
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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