PAKCOOL® Thermally Conductive Pad TP-215-HT

Key Features and Benefits

- **Thermal Conductivity: 1.5W/m·K**
- **Superior high and low temperature resistance, excellent weather resistance**
- **Superior chemical and mechanical stability**
- **Can effectively protect electrical components**

Description

PAKCOOL® TP-215-HT thermally conductive pads are designed with high thermal conductivity and high strength to meet the diverse needs of thermal management. This series of products offers a wide range of thermal conductivities and is suitable for various applications. PAKCOOL® TP-215-HT is widely used in communication equipment for its extremely low oil permeability. Under moderate application pressure, PAKCOOL® TP-215-HT series production can fill the air gaps between components and their heat-sinks and enhance heat transfer. PAKCOOL® TP-215-HT is electrical insulation and has high thermal conductivity at pressures ranging from 20 to 100 psi (0.14 to 0.69 MPa). Products can be customized to meet customer's special requirements.

PAKCOOL® TP-215-HT is a hardness enhancement version of PAKCOOL® TP-215, with excellent mechanical strength and elasticity. PAKCOOL® TP-215-HT can be provided in standard size with different thicknesses, or die cutting according to customer requirements.

Applications:

- **LED**
- **Power modules**
- **Integrated chips**
- **Automotive Electronics**
- **Communication devices**
- **Computers and Accessories**

Technical Parameters

Typical Properties	TP-215-HT	Test Methods
Color	Gray	**Visual**
Thermal Conductivity (W/m·K)	1.5	**ASTM D5470**
Thermal Impedance @20psi,0.5mm (K-in²/W)	0.96	**ASTM D5470**
Thickness* (mm)	0.3—5.0	**ASTM D374**
Density (g/cm³)	2.60±0.05	**ASTM D792**
Hardness (Shore A)	60±10	**ASTM D2240**
Tensile Strength (Psi)	⩾100	**ASTM D412**
Volume Resistivity (Ω·cm)	$\geqslant 1.0\times10^{13}$	**ASTM D257**
Dielectric Strength (kV/mm)	⩾12	**ASTM D149**
Dielectric Constant (100KHz)	4.5	**ASTM D150**
UL Flammability Rating	V-0	**UL 94**
Continuous Use Temperature (℃)	-40 ~ +200	**--**
***Standard Thickness (mm): 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5**		

Note: Data is for guidance only and should not be used as product specifications.

Configuration:

- Sheet form or die-cut form
- without pressure sensitive adhesive
- Standard dimension for sheet is 200mm × 400mm
- Custom dimensions are available

Storage:

- Store in a cool, dry place out of direct sunlight
- Suggest the shelf-time not more than 24 months

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