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Alphacool Apex Thermal Pad Soft 18W/mK 120x20x1mm

Alphacool article number: 13486

Quick Info

Alphacool offers a wide range of thermal pads for effective heat dissipation of electric components. Among these, the Apex thermal pad is the most powerful option. It can reliably dissipate heat and is versatile due to its strong compressibility.

- High thermal conductivity
- Low thermal resistance
- Good electrical insulation
- High compressibility
- Natural tack

Scope of delivery

1x Apex Thermal Pad Soft 18W/mK 120x20x1mm

Technical data thermal pad

Dimensions (L x W x H)	120 x 20 x 1mm
Thermal Conductivity (ASTM D5470)	17.8 W/mK (±10%)
Hardness (ASTM D2240)	65 (Shore 00) (±5)
Working temperature	-50 to ~150°C
Volume Resistance (ASTM D257)	6×10^{12} Ohm-m
Dielectric Breakdown Voltage (ASTM D149)	4 KV/mm (±10%)
Density (ASTM D792)	3.5 g/cm³ (±10%)
Elongation (ASTM D412)	20%
Weight Loss (ASTM E595)	less than 1%
Flame Rating (UL 94)	V-0
Color	light grey

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Safety data sheet	13486_Alphacool_Apex_Thermal_Pad_Soft_18W-mK_120x20x1mm_SDS.pdf
Product pictures	13486_Alphacool_Apex_Thermal_Pad_Soft_18W-mK_120x20x1mm_pics.zip

Packaging dimensions per unit

L x W x H	130 x 130 x 2 mm
Weight	22 g

Other data

Certificates	CE, FC, RoHS
EAN	4250197134866
Customs code	84733080000

Article text

Alphacool offers a wide range of thermal pads for effective heat dissipation of electric components. Among these, the Apex thermal pad is the most powerful option. It can reliably dissipate heat and is versatile due to its strong compressibility.

Powerful!

Alphacool's Apex thermal pad is a silicone-based ultra-soft thermal pad with optimal compressibility. Due to its low hardness and natural stickiness, it perfectly adapts to surfaces, compensates for irregularities between components, and significantly improves heat transfer.

Increased lifespan!

Thanks to its unique material composition, the Apex thermal pad has a significantly reduced risk of silicone bleeding. It is capable of reliably cooling for a much longer period than conventional thermal pads without significant performance losses.

Versatile!

Due to its excellent electrical insulation, the thermal pad is also suitable for cooling electric components in a variety of devices, including electric vehicles, autopilot systems, mobile phones, servers, motherboards, power supplies, LCD TVs, notebooks, telecommunications devices, access points, memory modules, and much more.

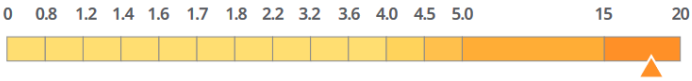
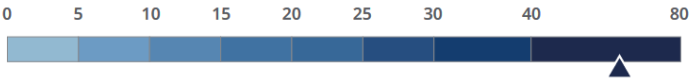
Drawing

Properties

Thermal Resistance vs. Pressure vs. Deflection

Pressure(psi)	R(°C-in²/W)	Deflection(%)
10	0.161	12
30	0.089	18

Thermal Conductivity : 17.8 W/mK



Hardness : 65 (Shore 00)