

TGF20SF

Leader Tech's TGF20SF (silicone free thermal pad) are widely used in high-end electronic industries such as high sensitivity detectors and high-definition camera. Made with an acrylic adhesive, is especially suitable for silicone oil sensitive places and avoids any oil leakage after prolonged use. It provides good insulation, excellent resistance to aging, high flexibility and good self-adhesive.

Features:

- No silicone components
- High thermal conductivity
- Good flexibility
- High strength and elasticity.

Applications:

- Mobile electronic equipments
- Microprocessors and chips
- Automotive engine control units
- Laptop computers
- Wireless communication hardware products

Storage Conditions:

- Store in the darkness
- Storage Temperature: $\leq 30^{\circ}\text{C}$
- Storage Humidity: $\leq 70\%$
- When stacking the parts, the parts should not be higher than 7 layers or more than 1mm

Shelf Life:

- Stored at storage conditions: Two years
- Stored in unqualified storage conditions: 6 months

Properties:

Item	Parameter	Unit	Test Method
Color	Gray White	-	Visual
Specification	200*400	mm	ASTM D5947
Thickness	0.5 ~ 3	mm	ASTM D374
Hardness	35~50(±5)	Shore C	ASTM D2240
Density	2.7(±0.2)	g/cc	ASTM D792
Tensile Strength	≥0.15	Mpa	ASTM D412
Elongation	≥80	%	ASTM D412
Compression Ratio	≥25(@50PSI)	%	ASTM D695
UL Certification	V-0, 5V	-	UL94
Operating Temperature	-40 ~ 150	°C	IEC 600068-2-14

Thermal Characteristics:

Thermal Conductivity	2.0 (±0.25)	W / m·K	ASTM D5470
Thermal Resistance	≤0.7(@20PSI/1mm)	°Cin ² /W	ASTM D5470

Electrical Properties:

Breakdown Voltage	≥8(@1mm)	KV	ASTM D149
Volume Resistivity	10 ¹⁰	Ω·cm	ASTM D257
Dielectric Constant	≥2	@ 1MHz	ASTM D150
Dielectric Loss	≤0.1	@ 1MHz	ASTM D150

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