

TGF10

Leader Tech's TGF10 series is a reliable heat transfer media with excellent insulation, compressibility and natural surface viscosity. It conforms perfectly with surface gaps, allowing it to fill air gaps and heat conduction from a heat source to a surface.

Features:

- Low thermal resistance
- UL94 V-0 recognized
- Excellent insulation performance
- RoHS and Reach Compliant
- Viscous surface

Applications:

- Between chip and heat-dissipation modules
- Optoelectronics industry
- Netcom products
- New energy Battery and Automotive Industry
- Household Appliances
- Wearable Technology

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
Thickness	0.2 ~ 18	mm	ASTM D374
Hardness	8 ~ 80 (± 10)	Shore 00	ASTM D2240
Density	2.35(± 0.5)	g/cc	ASTM D792
Tensile Strength	≥ 0.3	Mpa	ASTM D412
Elongation	≥ 80	%	ASTM D412
Compression Ratio	≥ 25 (@50PSI)	%	ASTM D695
UL Certification	V-0, 5V	-	UL94
Operating Temperature	-50 ~ 180	°C	IEC 600068-2-14

Thermal Characteristics:

Thermal Conductivity	1.0 (± 0.2)	W / m·K	ASTM D5470
Thermal Resistance	≤ 2.0 (@20PSI/1mm)	°Cin ² /W	ASTM D5470

Electrical Properties:

Breakdown Voltage	≥ 8	KV/mm	ASTM D149
Volume Resistivity	$\geq 10^{10}$	$\Omega \cdot \text{cm}$	ASTM D257
Dielectric constant	≥ 2	@1MHz	ASTM D150
Dielectric loss	≤ 0.1	@1MHz	ASTM D150

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