

TFUER-T301

Solder Pallet Materials



DESCRIPTION

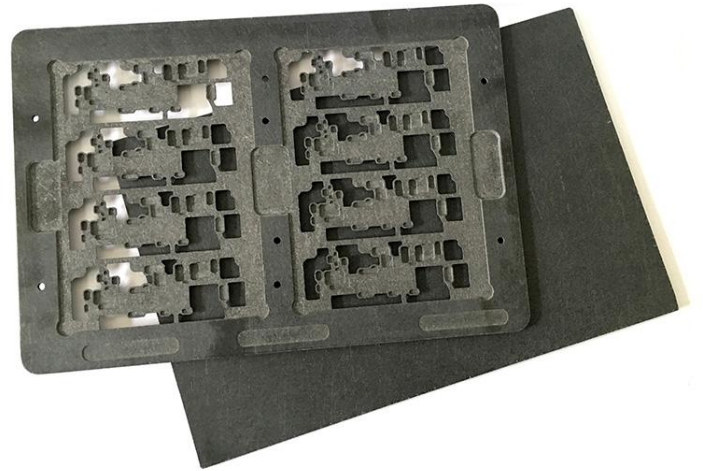
T301 is a high-temperature-resistant composite materials that are used for various purposes, such as solder pallets, insulating boards, and heat-resistant surfaces in electronic manufacturing.

Thickness: 3 mm ~ 50 mm.

Dimension: 1020 x 1220 mm, 1220 x 2440 mm.

KEY FEATURES

1. Heat Resistance
2. Electrical Insulation
3. Mechanical Strength
4. Chemical Resistance
5. Low Expansion



APPLICATION

1. **Solder Pallets:** T301 is commonly used for solder pallets due to its excellent heat resistance and structural stability. The material can withstand the high temperatures encountered during wave soldering or reflow soldering processes.
2. **PCB Supports:** Used in Printed Circuit Board (PCB) manufacturing, where it helps to hold PCBs in place during soldering without affecting the board's delicate components.
3. **Heat Insulation Boards:** Used in insulating boards to protect sensitive electronics from heat exposure during assembly and testing processes.

BENEFITS

1. **Long-lasting:** T301 materials offer a long lifespan, even under high-temperature conditions, which reduces the need for frequent replacement.
2. **Cost-effective:** While it is a high-performance material, T301 is often more affordable compared to other advanced materials, making it a cost-effective solution for industrial applications.
3. **Customization:** It can be tailored to meet specific material properties, such as thickness, shape, or resistance levels, depending on the requirements of the application.

Specification Data Sheet	Unit	T301	T301G	T303
Grade	N/A	Thermal Anti-Static	Optical Anti-Static	Optical Anti-Static
Color	N/A	Black	Grey	Black
Density	g/cm ³	1.85	1.85	1.85
Water Absorption	%	0.2	0.2	0.2
Flexural strength	MPA(23°C)	320	320	350
	MPA(150°C)	155	155	180
Flexural modulus of elasticity	MPA(23°C)	18000	18000	19000
	MPA(150°C)	8000	8000	9000
Coefficient of linear expansion	10 ⁻⁶ /K	10	10	10
Thermal conductivity	W/(m ² K)	0.21	0.21	0.2
Transient working temperature	°C	320	320	350
Continuous working temperature	°C	280	280	300
Specific surface resistance	Ω	10 ⁵ ~ 10 ⁹	10 ⁵ ~ 10 ⁹	10 ⁵ ~ 10 ⁹
Thickness tolerance	mm	-0.10/+0.10	-0.10/+0.10	-0.10/+0.10
Flatness tolerance (300x300mm)	mm	0.20	0.20	0.20
Chemical resistance	N/A	Excellent	Excellent	Excellent

All information provided is based on the results of experiments conducted with the utmost care in our laboratories. However, it remains the user's responsibility to conduct additional tests to confirm the material's suitability for specific applications and ensure successful processing and usage.

RoHS Declaration: This material complies with the requirements of the EU Directive 2011/65/EU (RoHS). It does not contain any substances of very high concern (SVHC) as specified in Article 4, Paragraph 1 of the directive.