



Ceramic Fireproof Silicone Tape KB201C

KB201C Ceramic fireproof silicone tape is a high-temperature ceramifiable silicone composite material developed by KOMPA New Materials. When exposed to intense heat, the surface of this product transforms into a rigid ceramic-like structure, providing excellent flame retardancy, thermal insulation, and fire resistance. To enhance its mechanical performance and resistance to burn-through, we use modified fiberglass fabric as the base material. On the premise of ensuring strong adhesion, ceramifiable silicone material can be coated on one or both sides of the fiberglass substrate, delivering vibration damping, fire protection, ablation resistance, and high-temperature insulation.

KB201F—Technical Data Sheet of Ceramic:

Properties	KB201CS	KB201CDD	Standard					
	Single-sided adhesive	Double-sided adhesive						
Composite Material	Glassfiber		/					
Thickness mm	0.2~3.0		ASTM D374					
Density (g/cm³)	1.3-1.8		ASTM D792					
Hardness (Shore A)	60±10		ASTM D2240					
Tear Strength kN/m	≥10		GB/T-529-2008					
Tensile Strength MPa	≥18		ASTM D412					
Flame Retardancy	VTM-0 或 V-0		UL 94					
Thermal Conductivity (W/(m·K))	≤0.4		ASTM E1461					
Water absorption	≤3%		GB/T 1034-2008					
Temperature (°C)	-60~220		SAE J-2236					
Volume resistivity (Ω·cm)	10 ₁₄		ASTM D257					
800°C Volume resistivity (Ω·cm) 5min	V≥3MΩ		IEC60243					
RoHS2.0/ELV	Pass		RoHS2.0/ELV					
Silicone Surface Finish	Glossy, Matte ,Fabric-textured surface		Visual					
Thickness Tolerance: Thickness T (mm) 0.2≤T≤0.6, Tolerance ±0.05mm 0.6≤T≤1.0, Tolerance ±0.10mm 1.0≤T≤2.0, Tolerance ±0.15mm 2.0≤T≤3.0, Tolerance ±0.30mm								
Note: The values above are for reference only. Actual specifications shall be confirmed by samples or mutually agreed requirements.								
Model Coding Rules_Example：KB201CS-0.3G								
KB	2	01-Glassfiber	C	S-Single	0.3	Color	O	Orange
KOMPA	Product No.	02-Teflon	Ceramization	D-Double	Thickness		G	Grey
		03-Fire Blanket						

The information contained herein is intended to assist you in the design and use of high-performance silicone materials from Jiangsu Kompa New Materials Co., Ltd. It is not intended to, and does not, constitute any express or implied warranty, including but not limited to warranties of merchantability or fitness for a particular purpose. Nor does it guarantee that users will achieve the results shown in this material selection guide for specific applications. The user is responsible for determining the suitability of Kompa high-performance silicone materials for each particular application.



Features:

1. 1000°C burnout: no burn-through, no cracks.
2. 800°C burnout: 5 minutes, still maintains 500MΩ.
3. Flame retardant meets UL94-V0/EN45545-2.
4. Above 650°C, it becomes ceramic.
5. Lightweight, flexible, and maintains elasticity over a wide temperature range of -60°C to 220°C.
6. Low VOC, resulting in low smoke density, toxicity, and heat release rate during combustion.
7. RoHS 2.0/REACH compliant.

Main Applications:

Fireproof and thermal insulation materials for power battery pack covers

Fireproof fillers for battery packs

Fireproof and thermal insulation applications for wires and cables

High-temperature insulation for communication equipment

Size:

Rolls: Standard 500mm or 1000mm, custom sizes accepted.

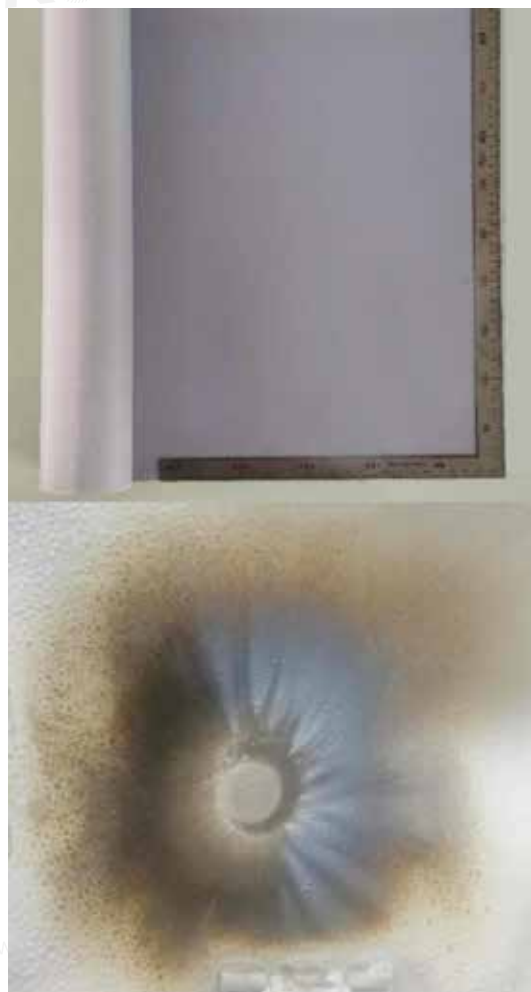
Die-cut according to customer drawings.

Adhesive backing available: no adhesive, single-sided, or double-sided.

Storage and transportation:

Store in original packaging at room temperature. Keep away from open flames.

Handle and transport as a standard chemical. Non-toxic and non-hazardous.



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