

# Technical data sheet

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## Conductive Paste

### ELEPASTE AF5000 (silver paste, thermal drying type)

AF5000 is a conductive silver paste consisting of silver powder dispersed in thermo plastic resin. AF5000 is excellent adhesion to polyester film suitable for touch panel, membrane key touch switches and other flexible circuits.

#### 《Features》

- Low electrical resistance
- Excellent adhesion strength to polyester film and ITO substrate.

#### 《Properties》

Items	AF5000	Remarks
Appearance	Silver	Visual observation
Viscosity (dPa · s)	105 ± 15	E-type viscometer (50 rpm, 25°C)
Curing condition	120~150°C, 30min.	Air forced convection oven
Specific resistance ( $\Omega \cdot \text{cm}$ )	$5 \times 10^{-5}$	
Sheet resistivity ( $\Omega / \square, 10\mu\text{m}$ )	0.05	
Adhesion	100/100 (on PET film) 100/100 (on ITO glass)	Cross-Cut Test (Sellotape peel)
Pencil hardness	H	
Storage	360days after shipment (25°C)	

\*Information presented in this product data sheet is considered reliable, but it may vary depends on conditions and methods. Before adopting our products for commercial use, please confirm your suitability.

#### 《Health and safety》

Use with good ventilation. Avoid skin contact. If ingested, consult a doctor immediately. Consult this product's MSDS for further information on safety.

Experimental data

Properties of film versus curing condition (time and temp.)

(1) Pencil hardness

Curing time (min)	Curing Temperature (°C)		
	90	120	150
10		H	
20		H	
30	B	H	H
60		H	

(2) Adhesion; Cross-Cut / Tape peel Test

Curing time (min)	Curing Temperature (°C)					
	90	120	150	90	120	150
	GLASS			PET		
10		100/100			100/100	
20		100/100			100/100	
30	100/100	100/100	100/100	100/100	100/100	100/100
60		100/100			100/100	

(3) Specific resistance (Cured at 120°C)

