



# APTEK LABORATORIES, INC.

ISO 9001 / AS9100 Certified

28570 Livingston Avenue, Valencia, CA 91355-4171 • (661) 257-1677 FAX (661) 257-8939

## TECHNICAL DATA & INFORMATION

### APTEK® 2550

High heat resistant, polyimide ESD coating

### PRODUCT DESCRIPTION

**APTEK 2550** is a carbon-filled, low viscosity, one component, electrically conductive, tough polyimide coating designed to dissipate an electrostatic charge.

### KEY FEATURES AND BENEFITS

- High heat resistance for continuous service at 300°C and/or intermittent exposure up to 400°C
- Excellent reversion resistance for good physical stability under high heat and humidity environments
- Excellent substrate adhesion; superior to silicones
- Sprayable viscosity as supplied
- Very long usable work life in sprayer reservoir - greater than 3 days
- Clear, electrically insulative version available as Aptek 2551 (volume resistivity  $>10^{14}$  ohm-cm)

### HANDLING INFORMATION

- 1.) Work life will be affected by temperature, humidity, and degree of solvent evaporation.
- 2) To reduce mixed viscosity, and/or extend work life, dilute mixture with 2550 Thinner as needed.
- 3.) The coating can be sprayed using a Binks model #115 spray gun with a line pressure of 20 psi. The use of Viton gaskets/seals is recommended on spraying equipment to prevent attack by solvents in this system.

### CURE SCHEDULE

15 minutes @60°C (for solvent flash off)

+

8 hours @ 175°C or

4 hours @ 200°C or

3 hours @ 225°C or

1 hour @ 300°C

### **- DISCLAIMER NOTICE -**

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**TYPICAL PROPERTIES**

(values not to be used for specification purposes)

<b><u>CHARACTERISTICS</u></b>	<b><u>2550</u></b>	<b><u>TEST METHOD</u></b>
Color	Black	Visual
Specific gravity	1.01	ASTM D-1475
Viscosity @ 25°C, cps	100	ASTM D-1824
Flash point, °C	-20	ASTM D-92
Shelf life @ 5°C, months, factory sealed containers	3	
@ -18°C or below, months, factory sealed containers	12	

Notes: Shelf life may be reduced once containers are opened and material is exposed to air and moisture. To preserve maximum use life, blanket the contents of the containers with dry nitrogen or argon before resealing.

<b><u>CURED PHYSICAL PROPERTIES</u></b>	<b><u>2550</u></b>	<b><u>TEST METHOD</u></b>
Outgassing @ 10 <sup>-6</sup>		
TML, %	0.13	ASTM-E595
CVCM, %	0.06	ASTM-E595
Pencil Hardness	>6H	

<b><u>CURED ELECTRICAL PROPERTIES</u></b>	<b><u>2550</u></b>	<b><u>TEST METHOD</u></b>
Surface resistivity @ 25°C, 1 mil thick film, ohms/square	10 <sup>1</sup> - 10 <sup>3</sup>	ETS 860B

**SAFETY AND FIRST AID**

**APTEK 2550** is a carbon-filled polyimide resin containing xylene and is thus considered a flammable liquid and should be treated with caution. Avoid storage temperatures above 5°C and keep away from flame, sparks, or other sources of ignition. Use in well-ventilated area and avoid breathing vapors. In case of eye contact, flush with fresh clean water for at least 15 minutes; for skin contact, wash thoroughly with soap and water. If swallowed, drink at least one pint of water and call a physician. Refer to Material Safety Data Sheet for more details.

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