

838AR-P Pen



Carbon Conductive Pen

838AR-P pen dispenses an acrylic lacquer pigmented with conductive carbon. The cured traces are durable and corrosion resistant. They adhere well to plastics and most electronic substrates. The traces are flexible, but the product works best on a smooth, flat, hard surface. The valve tip opens when pressed against the surface, and the flow is controlled by squeezing the barrel.

This pen repairs traces on keyboards, game controllers or remote controls. It is also good for making small connections, such as jumpers, through-holes, bridges, and links. It is great for drawing resistors too, and it can be used to increase the surface area of contacts by painting the area around them.

Use this pen when high conductivity is not required. For applications requiring lower resistance, use the 841AR-P Nickel Conductive Pen or the 842AR-P Silver Conductive Pen.



Features and Benefits

- Creates durable, reliable and conductive traces
- Typical trace width: 1.5–2.0 mm
- Dries in 1 minute at room temperature
- Superior corrosion resistance

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
838AR-P	Pen	5 mL	4.44 g

Contact Information

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Cured Properties

Resistivity	$8.6 \times 10^{-1} \Omega \cdot \text{cm}$
Service Temperature Range	-40–120 °C

Usage Parameters

Dry To Touch	1 min
Cure Times	24 h @ 22 °C 30 min @ 65 °C
Approximate Linear Coverage	74 m

Uncured Properties

Viscosity @ 25 °C	114 cP
Density	0.89 g/mL
Percent Solids	15 %
Shelf Life	3 y
Calculated VOC	519 g/L

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Safety Data Sheet

Read the product SDS before using this product (downloadable at www.mgchemicals.com).

Recommended Preparation

Clean the substrate with Isopropyl Alcohol, MG #824, so the surface is free of oils, dust, and other residues.

Application Instructions

1. Shake pen vigorously until the ball moves freely inside.
2. Hold pen at angle and depress tip against surface.
3. Draw pen across surface while gently squeezing barrel.
4. Let dry 1 min before handling or heat cure.
5. Clean tip, replace cap and store tip up after use.

Cure Instructions

Allow to dry at room temperature for 24 hours, or after letting sit for 1 minute, cure the coating in an oven for 30 minutes @ 65 °C.

Storage and Handling

Store between -5 and 22 °C in a dry area, away from sunlight (see SDS).

Disclaimer

This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.