



## Metalon<sup>®</sup> Conductive Inks for Printed Electronics

[www.novacentrix.com](http://www.novacentrix.com)

### Metalon<sup>®</sup> HPR-059

#### Carbon Screen Ink

**Particle:** 0.15-0.25 micron carbon black

**Substrates:** Paper, plastics, glass, metals

**Features:** Resistive ink, High carbon black loading (10 wt%)  
 Excellent adhesion to a variety of substrates.  
 Can be cleaned with water.

#### Thermal cure data (typical values):

Substrate	Cure Temperature (°C)	Cure Time (minutes)	Resistivity <sup>1,2</sup> (ohm/square/mil)	Crosshatch adhesion
Melinex ST505	100	30	350	5B
	120	10	350	5B
	140	10	350	5B
Polyimide	175	5	300	5B
	200	5	275	5B
	250	5	275	5B

<sup>1</sup> Based on print with 25% porosity, <sup>2</sup> Typical values

<b>Physical Properties</b>	<b>General Description</b> .....Carbon black in aqueous base <b>Viscosity (typical values)</b> .....2,500 cP at 10 sec <sup>-1</sup> , 650 cP at 100 sec <sup>-1</sup> <b>Specific Gravity</b> .....1.07 <b>Flash Point</b> .....non-flammable <b>z-avg Particle Size (DLS typical values)</b> .....0.15-0.25 micron <b>Carbon black Content</b> .....10 wt%
<b>Storage and Printing</b>	<b>Storage</b> .....Room temperature <b>Shelf life</b> .....>6 months <b>Cleaning solvent</b> .....Water <b>Screen mesh material</b> .....Stainless steel or polyester <b>Screen mesh count</b> .....400 to 80 wires per inch
<b>Shipping and Packaging</b>	Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.

[www.novacentrix.com](http://www.novacentrix.com)  
 Contact us today to learn more.  
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