LTR4905 is a screen printable, graphene-enabled conductive ink for low temperature applications. This graphene-enabled ink, when properly cured, has good adhesion to most untreated and treated flexible plastic films such as polyester.

**Key Benefits**

- REACH¹ and RoHS² compliant
- Good adhesion to most flexible plastic films
- Fast curing
- Compatible with Heraeus low temperature Ag conductor

**Typical Paste Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistivity</td>
<td>≤ 5 ohms/square/mil when cured at 120 °C for 5 minutes</td>
</tr>
<tr>
<td>Adhesion</td>
<td>Tape Test Method Good 5B Adhesion</td>
</tr>
<tr>
<td>Viscosity</td>
<td>100 – 130 Kcps Brookfield HBT SC4 -14 spindle and 6R utility cup @ 10 rpm, 25 °C</td>
</tr>
<tr>
<td>Solids</td>
<td>40 ± 1.0%</td>
</tr>
<tr>
<td>Mixing</td>
<td>Material should be thoroughly mixed prior to use.</td>
</tr>
<tr>
<td>Non-Volatile</td>
<td>80.0 ± 2.0 %</td>
</tr>
</tbody>
</table>

**Recommended Processing Guidelines**

**Printing:**
- 325 stainless steel mesh or nylon screen
- 0.5 mil emulsion thickness

**Cleaning:**
- Clean uncured resin with Acetone or similar solvent.

**Curing:**
- 120 °C for 5 minutes
- 110 °C for 10 minutes
- 90 °C for 15 minutes

**Cured Thickness:**
- 6 – 8 microns

**Recommended Substrates:**
- Untreated PET
- Treated PET
- Flexible plastic films

**Warranty**
- Material guaranteed to meet specifications for 6 months from date of shipment

**Handling & Precautions:**
- Use in a well-ventilated area.
- Avoid contact with skin.
- Wash with soap and water.

**Storage**
- Store in a dry location at 5 – 25 °C
- DO NOT REFRIGERATE.
- Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

**SPECIAL NOTE:**
- Some of these materials may show resistance shifts due to thermal storage. Stability baking has been shown to minimize this behavior.
Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (“REACH”) by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances (“RoHS”) and its subsequent amendments (including the exceptions related to Pb)