

PC10904HV

Component Metallization

Description

PC10904HV is a high performance silver conductor designed for metallizing ceramic component devices. The rheology of PC10904HV is optimized for dipping and spraying methods of application.

Key Features

- High green strength Excellent conductivity High adhesion to various oxide substrates Optimized for dipping and spraying applications



Typical Properties

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| Viscosity       | 8.5 – 9.5 kcps Brookfield RVT, Spindle #5 @ 20 rpm, 25°C          |
| Resistivity     | < 1.5 milliohms per square at 25 microns fired film thickness.    |
| Solderability   | 3 seconds dip<br>Sn62/Pb36/Ag2, 200°C<br>Excellent                |
| Solder Leaching | Sn62/Pb36/Ag2, 230°C<br>10 mil wide conductor trace<br>< 50% loss |

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Recommended Processing Guide

|                           |                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------|
| Printing Parameters       | The material should be thoroughly shaken before use.<br>Apply the material by dipping or spraying. |
| Drying Temperature        | 125-150°C for 5-10 minutes.                                                                        |
| Process Temperature (TDS) | 850°C - 925°C peak temperature<br>Dwell time of 5-10minutes dwell time.                            |
| Recommended Thinner       | Heraeus RV-404                                                                                     |

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## PC10904HV

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#### Warranty

Material guaranteed to meet specifications for 6 months from date of manufacturing with proper storage.

#### 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.

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