

IP6085

Dielectric / Glaze

Description

IP6085 is a single part dielectric paste which produces a dense, grey, hermetic fired film. IP6080 is compatible with 3000, and 6000 grade aluminum substrates. Its unique glass system high breakdown strength up to 75 µm of dielectric. It is compatible with C8829D Ag conductors.

Key Features

- Excellent electrical properties High breakdown voltage
Compatible with Aluminum substrates

Typical Properties

Viscosity	40 – 80 kcps, Brookfield RV DV-III # 14 spindle in utility cup @ 10 RPM, 25 °C
Solids	72.0 ± 1.0%
Blendable	
Coverage	155 cm2/g @ 40 microns wet film thickness
Color	
Resistivity	
Laser Trim	
Rel. Dielectric Constant	< 20 @ 1KHz
Dissipation Factor	< 0.5% @ 1KH
Insulation Resistance	> 109 ohms @ 100 DC
Breakdown Voltage	> 1000 VDC per mil (3 individually fired layers)
Via resolution	

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Typical Properties (continued)

Thermal Coefficient of
Expansion (CTE)

Solderability

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Recommended Processing Guide

Printing Parameters	280 – 325 mesh stainless steel screen 0.5 mil emulsion thickness Allow wet prints to level at room temperature for 10 minutes before drying Two individually fired layers or co-fired layers with a total thickness of at least 50 µm will be necessary to achieve the optimum performance level
Printing Speed	
Leveling	
Drying Temperature	150 °C for 15 minutes
Process Temperature (TDS)	570 °C as measured on substrate Dwell time of 2 - 20 minutes, dependent on application/substrate mass
Film Thickness	22 – 28 µm (1 layer) 13 – 17 µm (1 layer) 40 – 50 µm (3 layer)
Recommended Thinner	Heraeus RV-507
Paste Compatibility	

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Notes

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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, cool (5 - 25°C), dark place with container tightly shut. Allow paste to come to room temperature prior to opening. Spatulate well before using.

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