

DuPont QM35

VIA FILL CONDUCTOR

Technical Data Sheet

Product Description

DuPont QM35 is silver/platinum via fill for use with DuPont QM44, DuPont QM42 and Diffusion Patterning Multilayer Systems. It is recommended as a top layer via fill for gold to silver bearing interconnections. Not recommended for stacked vias (see DuPont QM34 data sheet).

Product Benefits

- Reliable connection between gold and silver bearing conductors
- One Step via fill
- Cofirable with dielectric layers and conductors.

Processing

Substrates

Properties are based on tests on 96% alumina substrates. Substrates of other compositions and from various manufacturers may result in variations in performance properties.

Printing

Screen-print with a 325-mesh, stainless steel screen with a 12.5 µm emulsion thickness.

Drying

Allow prints to level for 5-10 minutes at room temperature. Then dry for 10-15 minutes at 150°C.

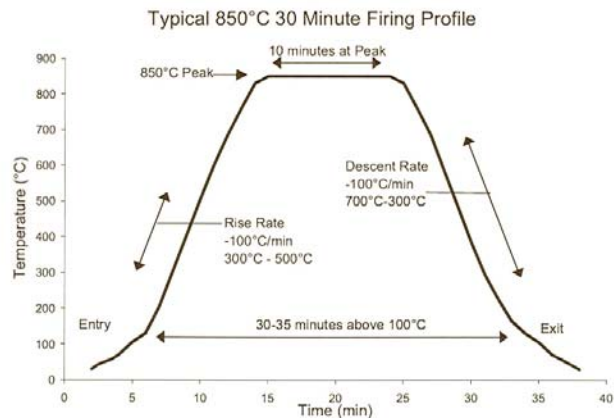
Firing

Fire in a well ventilated moving conveyor furnace, in air with a 30-minute cycle, to peak temperature of 850°C.

Typical Physical Properties

Test	Properties
Resistivity (mΩ/sq @ 25 µm)	0.8 - 2.5
Planarity (µm)	5 - 10
Via Diameter (µm)	125 - 500
Composition Properties	
Viscosity (Pa.s) (HBT UC&SP, 50 rpm, 25°C)	60-100
Thinner	DuPont 7502
Coverage (300 µm diameter vias)	61,000

This table shows anticipated typical physical properties for DuPont QM35 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.



Storage and Shelf Life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

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