

DuPont 5415D

RESISTORS ENCAPSULANT

Technical Data Sheet

Product Description

DuPont 5415D is a screen printable low temperature firing, protective glass encapsulant for chip resistors.

Product Benefits

- Acid resistant, withstands acidic nickel plating conditions
- Low firing temperatures: 600° to 620°C at 20 minutes profile
- Laser trimmable
- Excellent printability
- Green color
- Cadmium-free*

*Cadmium "free" as used herein means that cadmium is not an intentional ingredient and is not intentionally added to the referenced product.

Processing

Printing

Print a dried print thickness of 18 to 20 μm with a 325 mesh stainless steel screen to give a minimum fired thickness of 10 μm .

Recommended Firing

Fire to peak temperature of 600° – 625°C for 5 to 10 minutes at peak with a total firing cycle of 20 -30 minutes. Allow adequate time (5 – 10 minutes) during heating cycle to avoid entrapment of organics in the firing process.

Alternative Firing

A dwell time of 2 minutes at 620 -650C has also been shown to provide excellent acid resistant properties.

Composition Properties

Test	Properties
Viscosity (Pa-s) [Brookfield HBT, UC&S, 10 rpm, 25+/- 1 C]	200-300
Thinner	DuPont 8250

This table shows anticipated typical physical properties for DuPont 5415D 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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