**Product Description**

DuPont 5415A is a screen printable, laser trimmable, and air-fireable G1 glass encapsulant for chip resistors.

**Product Benefits**

- Optimized viscosity for higher printing speed
- Acid resistant - withstands acidic nickel plating conditions
- Low firing temperature: 600-620°C/30 minutes profile
- Green Color
- Cadmium-free*
- G1 encapsulant for chip resistors

*Cadmium “free” as used herein means that cadmium is not intentional ingredient in and is not intentionally added to the referenced product. Trace amounts however may be present.

**Processing**

**Printing**

Print to a dried print thickness of 18-20µm with a 325-mesh stainless steel screen to give a minimum fired thickness of 10µm. The recommended printing speeds is 6-8 in/sec.

**Screen Mask Cleaner**

While traditional screen cleaners work with DuPont 5415A, 1-propoxy 2-propanol, a non CFC (chlorofluorocarbon) alternative, is recommended.

**Drying**

Prints should be allowed to level at room temperature for 5-10 minutes and then dried for 10 minutes at 150°C

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Properties</th>
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<tbody>
<tr>
<td>Viscosity (Pa.S)</td>
<td>150 - 210</td>
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<tr>
<td>Brookfield HBT, UC&amp;SP, 10 rpm, 25°C</td>
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</tbody>
</table>

Table 1 shows anticipated typical physical properties for DuPont 5415A based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

**Firing**

Fire to peak temperature of 600-620°C for 5-10 minutes at peak with a total firing cycle of 30 minutes. Allow adequate time (5-10 min) during heating cycle to avoid entrapment of organics in the fired film.

**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).