

# DuPont 5738R

## AU CO-FIRE VIA FILL COMPOSITION - TECHNICAL DATA SHEET

### PRODUCT DESCRIPTION

DuPont 5738R cofirable Au conductor is part of the DuPont GreenTape™ 951 low temperature co-fired ceramic system. It has been designed to provide reliable connections between recommended Au conductor layers.

### PRODUCT BENEFITS

When used with GreenTape™ 951 and compatible conductors pastes:

- Co-fire processing
- High conductivity
- High circuit density
- Phthalate, Cadmium, Nickel oxide free\*

\*Phthalate, Cadmium and Nickel oxide 'free' as used herein means that cadmium, phthalate and nickel oxide are not intentional ingredients in and are not intentionally added to the referenced product. Trace amounts however may be present.

### PROCESSING SUMMARY

#### Screen Type

- 25–20 µm thick etched or punched metal stencil, with a squeegee speed as low as 10 mm/s

#### Drying

- Allow prints to level for over 5–10 minutes at room temperature, then dry for 5 minutes at 120°C. Do not over-dry

#### Firing

- Consult 951 GreenTape™ technical data sheet

### DESIGN NOTES

Recommended processing procedure for GreenTape™ 951 are detailed in the 951 Low-Temperature Cofire dielectric Tape technical data sheet. For compatible thick films compositions, consult your DuPont representative.

**Table 1 - Typical Physical Properties**

Test	Properties
Viscosity (PaS) Brookfield HBT, utility cup and spindle, (SC4-14/6R), 1 rpm, 25°C ±0.2°C	5800–7300
Thinner	9450
Clean-up Solvent	1-Propoxy-2-propanol
Shelf Life (months)	6

All values reported here are results of experiments in our laboratories intended to illustrate product performance potential with a given experimental design. They are not intended to represent the product's specifications, details of which are available upon demand.

### STORAGE AND SHELF LIFE

Containers may be stored, in a clean, stable environment at room temperature (between 5°C–30°C) with their lids tightly sealed. Storage in high temperature (<30°C) or in freezers (temperature 0°C) is NOT recommended as this could cause irreversible changes in the material. The Shelf life of compositions in factory-sealed (unopened) containers between (5°C–30°C) is six months from date of shipment.

# DuPont 5738R

## AU Co-FIRE VIA FILL COMPOSITION - TECHNICAL DATA SHEET

For more information on DuPont 5738R or other DuPont Microcircuit Materials products, please contact your local representative:

### Americas

DuPont Microcircuit Materials  
14 T.W. Alexander Drive  
Research Triangle Park, NC 27709  
Tel: 800.284.3382

### Europe

DuPont (UK) Limited  
Coldharbour Lane  
Bristol BS16 1QD  
United Kingdom  
Tel: 44.117.931.3191

### Asia

DuPont Kabushiki Kaisha  
MCM Technical Lab  
DuPont Electronics Center  
KSP R&D B213  
2-1, Sakado 3-Chom,  
Takatsu-ku, Kawasaki-shi  
Kanagawa, 213-0012  
Japan

Tel: 81-3-5521-8650

DuPont Taiwan, Ltd.  
45 Hsing-Pont Road  
Taoyuan, Taiwan 330  
Tel: 886-3-377-3616

DuPont China Holding Co. Ltd  
Bldg 11, 399 Keyuan Rd.  
Zhangji Hi-Tech Park  
Pudong New District  
Shanghai 201203, China  
Tel: 86-21-6386-6366 ext. 2202

DuPont Korea Inc.  
3-5th Floor, Asia tower #726  
Yeoksam-dong, Gangnam-gu  
Seoul 135-719, Korea  
Tel: 82-10-6385-5399

E.I. DuPont India Private Limited  
7th Floor, Tower C, DLF Cyber Greens  
Sector-25A, DLF City, Phase-III  
Gurgaon 122 002 Haryana, India  
Tel: 91-124-4091818

DuPont Company (Singapore) Pte Ltd  
1 Harbour Front Place, #11-01  
Harbour Frong Tower One,  
Singapore 098633  
Tel: 65-6586-3022

<http://mcm.dupont.com>

Copyright © 2014 DuPont. All rights reserved. The DuPont Oval Logo, DuPont™, and all DuPont products denoted with \* or ™ are registered trademarks or trademarks of E. I. du Pont de Nemours and Company or its affiliates.

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in end-use conditions, DuPont makes no warranties, and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102-4.