micro resist technology GmbH

Köpenicker Straße 325

12555 Berlin

Germany

Tel. +49 (0) 30 641670100

Fax +49 (0) 30 641670200

info@microresist.de

www.microresist.com





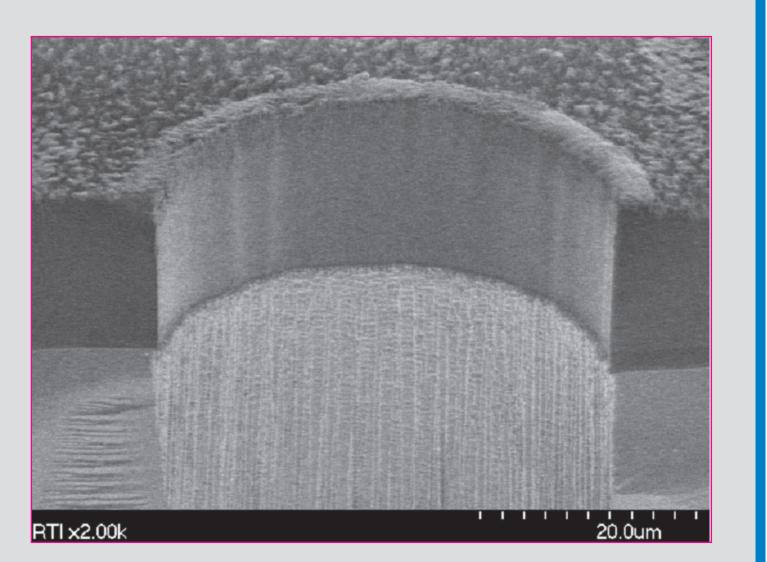
Dupont Dry Film Resists

Dry Film Resists for Microsystems Technology and Wafer Level Packaging

micro resist technology GmbH is a distributor of DuPont Dry Film Resists



MX5000, Tenting over via-hole



MX5000, etch mask for DRIE

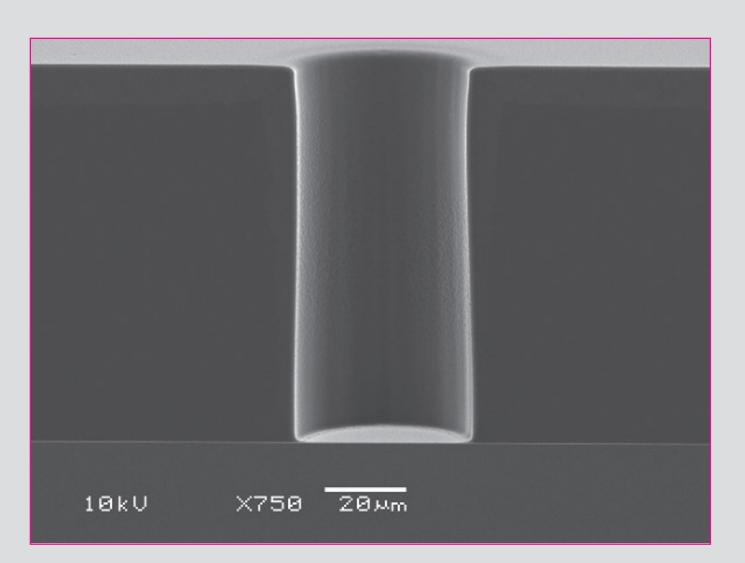
for applications in micro systems technology and wafer level packaging.

Key benefits of Dry Film Resists

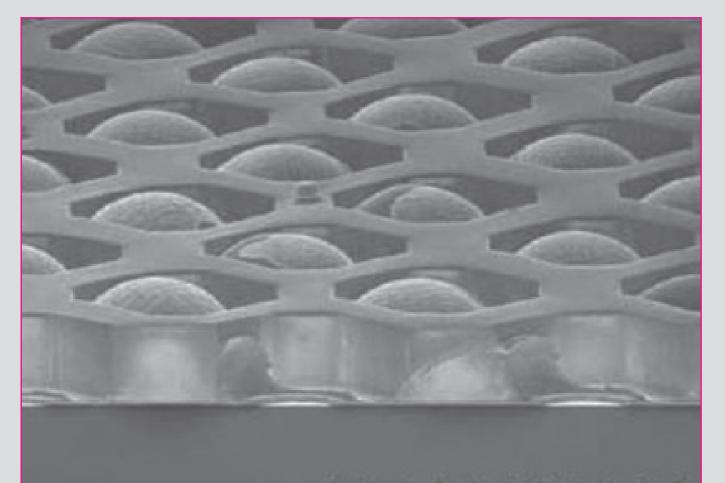
Unlike liquid resists for similar high film thicknesses the application of dry film resists results in the same film thickness over the whole substrate, independent on its size. No edge bead is formed. i. e. the substrate utilisation is better than with liquid resists. Furthermore, reliability in film composition is improved. The application of the resist film to the substrates by lamination is easier than spin-coating and softbake of liquid resists. In addition, hardly any coating waste is generated. With dry film resists it is possible to protect holes from metallisation or etching by tenting.

DuPont Dry Film Resists distributed by *micro resist technology GmbHcomprise*:

MX5000 series e.g. for via formation, plating and RDL etching, used in Bosch process
WBR2000 series e.g. for solder bumping (resist patterns thermally stable at 310 °C) by



WBR2000, mask aligner broadband exposure



300.00

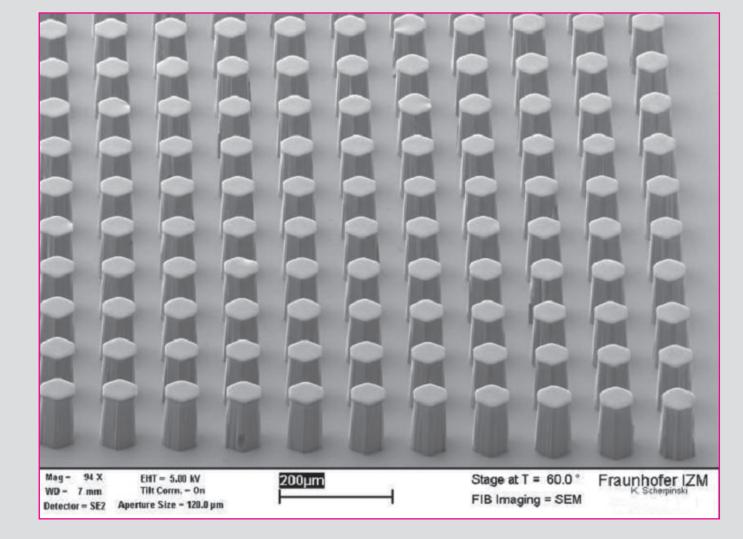
electroplating or stencil printing and for metal pillar manufacture

• WPR1000 series as cost-efficient resist for permanent applications, aspect ratio ~ 1:1

Product overview

Resist	Application	Film thickness [µm]	Permanent/ Removable	Developer
MX 5000 Series MX 5000, MX 5000c	Multipurpose, e.g. Via (TSV) formation (DRIE), plating and protection, RDL etching	15 - 50	Removable	Spray development, 0.75% K ₂ CO ₃ (mr-D 4000/ 75)
WBR 2000 Series	Creation of solder bumps by electroplating or stencil printing of solder-paste and reflow, copper-pillar plating	50, 75, 100, 120	Removable	Spray development, 1% K ₂ CO ₃ (mr-D 4000/ 100)
WPR 1000 Series	Multipurpose resist (green-yellow colour) for permanent applications	50, 75, 100	Permanent	Spray development, 0.85% Na ₂ CO ₃ anhydrous or 1% Na ₂ CO ₃ monohydrate

WBR2000, after stencil printing and reflow of the printed metal paste at 310 °C



50 µm Cu posts after electroplating in and removal of WBR2050

Data sheets of DuPont Dry Film Resists can be found here:

http://www.microresist.de/products/dupont/dupont_prod_en.htm