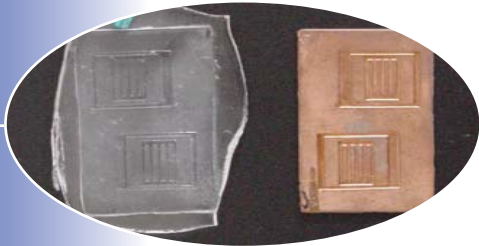
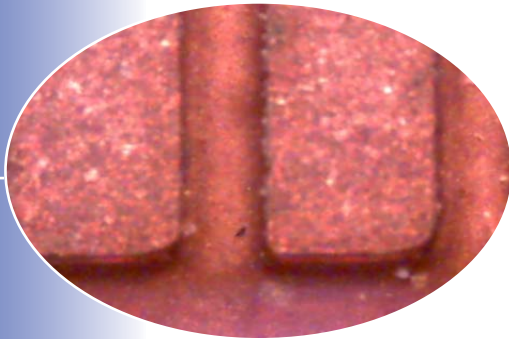


Molding of Acrylic Microfluidic Devices

APPLICATIONS
NOTE #108



*Molded Acrylic Device
& Copper Mold. (Mold
is 1 cm x 2 cm x 0.25 cm
thick).*



*Magnified View of
Copper Mold (60X)*



*Magnified View of
Acrylic Molded Part
(60X)*

Overview:

An acrylic microfluidic device is fabricated using standard molding techniques.

Process Flow:

1. Start with copper substrate.
2. Pattern copper substrate with negative image of required device using laminate photoresist and standard photolithographic techniques.
3. Wet etch mold cavity into copper substrate.
4. Remove photoresist.
5. Pour liquid plastic into mold.
6. After liquid plastic cools, release plastic part from mold cavity.



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