



Almaden High Outgassing Resist

Background

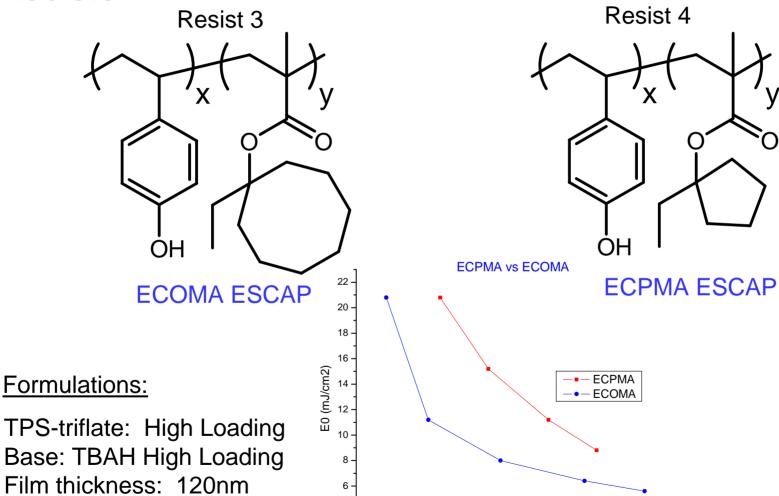
- First delivered to Greg Denbeaux in Fall 2007
- Efforts underway to raise outgassing flux 2-3X
 - Two new formulations immediately available for quick testing
 - Super High Outgasser 3; Super High Outgasser 4
- Resist will be rapidly scaled up pending successful outgassing test
- Formulations shipped to Greg Denbeaux last week

Underlying Resist Design

- ESCAP-style resist (Hydroxystyrene-cycloalkyl methacrylate copolymer)
- Low Activation ester chosen for finite room temperature ester deprotection
- Benzene-producing PAG used in high concentration; triflic acid generator
- High base loading used to maximize benzene generation prior to initiation of chain reaction
- High film thickness (> 120nm)



Resists



Temperature (C)