

## AZ 4999 Photoresist

Spray Coating Photoresist

### GENERAL INFORMATION

AZ 4999 is a spray coating dedicated highly transparent photoresist tailored to excel on special spray coating equipment (e.g. SUSS Delta AltaSpray) where it provides defect free and conformal coatings on devices with severe topography. Thick (several to several tens of microns) and uniform resist coatings are obtained on topography such as V-grooves and trenches with optimum coverage of sharp edges. There is no accumulation of resist in trenches. The use of AZ® 4999 photoresist enables high reproducibility in volume production applications.

### RECOMMENDED PROCESS

Softbake: 100°C, 60 sec, hotplate  
or 80°C – 115°C, 30 min, oven  
or follow spray coater instructions

Exposure: i-, h-, g-line, broadband and monochromatic

Post Exposure Bake (PEB): not required, optional with monochromatic exposure

Developer: AZ 400K Developer 1:4  
AZ 826 MIF Developer  
AZ 340 Developer 1:5

Development Time: ~ 30 sec per micron resist thickness

### SUITABLE ANCILLARIES

AZ EBR 70/30 Edge Bead Remover  
AZ 100 Remover / AZ KWIKSTRIP

### PHYSICAL AND CHEMICAL PROPERTIES

Viscosity [cSt at 25°C]: 0.52  
Solids content [%]: 4  
Absorptivity [l/(g\*cm)] at 398 nm: 0.1  
Spectral sensitivity: 310 nm – 440 nm

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Merck Performance Materials GmbH

Rheingastrasse 190 - 196  
D-65203 Wiesbaden  
Germany  
Tel. +49 (611) 962-4031  
Email: [jasmin.schmicking@merckgroup.com](mailto:jasmin.schmicking@merckgroup.com)



# Technical data sheet

## Technisches Datenblatt

### CAUCHY COEFFICIENTS

Unbleached

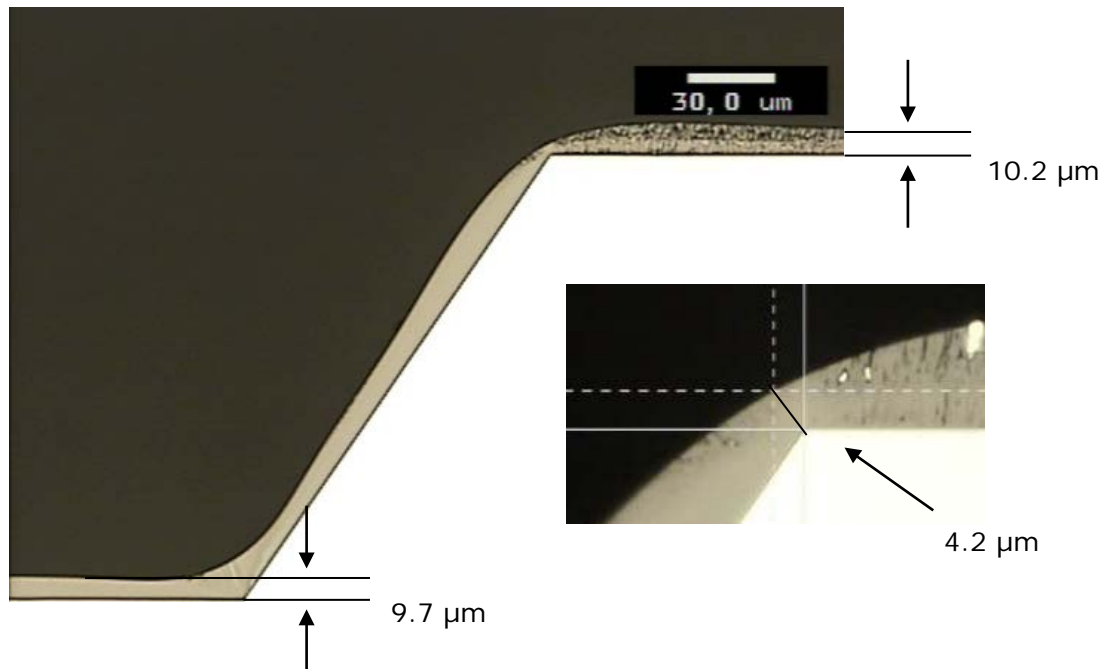
A	B	C
1.6154	0.010349 $\mu\text{m}^2$	0.000816 $\mu\text{m}^4$
1.6154	1.0349 x 10 <sup>6</sup> $\text{\AA}^2$	8.16 x 10 <sup>12</sup> $\text{\AA}^4$

### REFRACTIVE INDEX

Unbleached

	633 nm
n	1.6463
k	0

### COATING ON TOPOGRAPHY



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Merck Performance Materials GmbH

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D-65203 Wiesbaden  
Germany  
Tel. +49 (611) 962-4031  
Email: [jasmin.schmicking@merckgroup.com](mailto:jasmin.schmicking@merckgroup.com)

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