FUJIFILM

HPR 500 Positive Resist Series
g-line Performance

• The HPR 500 Novolac-based positive photoresist family is designed for typical broadband and g-line processes.

• HPR 500 Series resists perform with a wide range of developer conditions; normalities, MIC or MIF, immersion or track application, with or without surfactant.

• HPR 500 Series resists are available in several viscosities providing a range of film thicknesses from 1 µm to 4 µm.

• Edge Bead Removal can be successfully achieved using FUJIFILM's RER Series Products.

• HPR 500 Series resists have excellent adhesion properties.

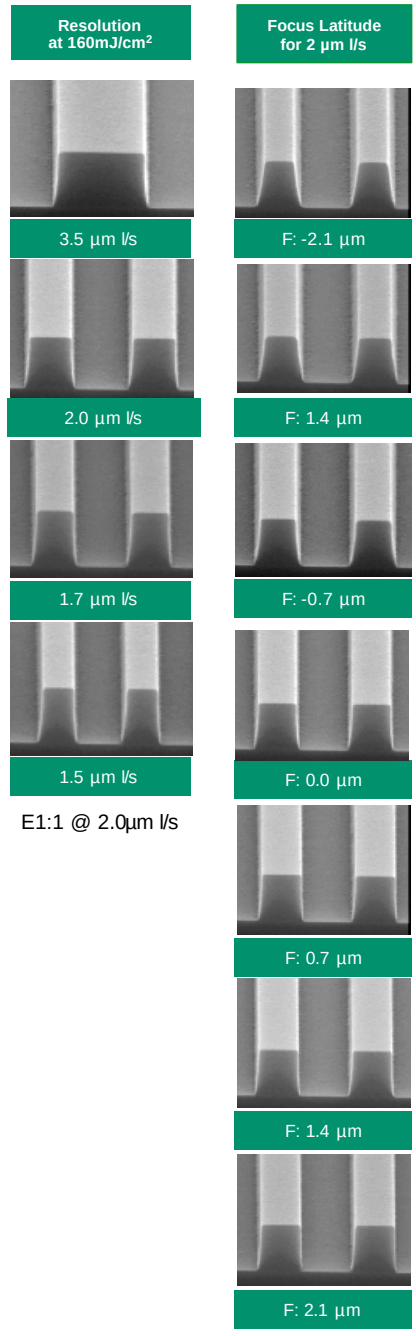
Product Features

• Wide process latitude.

• Excellent coating characteristics.

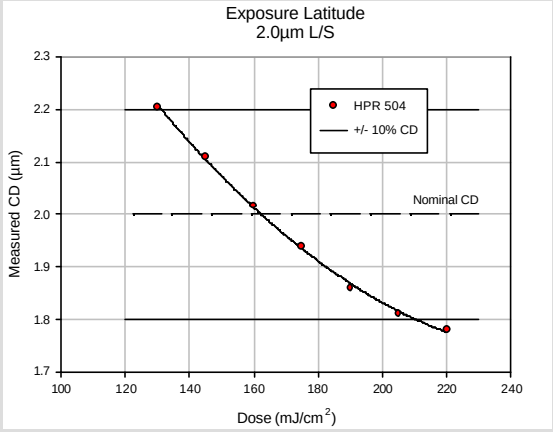
• Thermal stability >125° C.

• Compatible with O_2 Plasma stripping and Fujifilm's Microstrip Products.

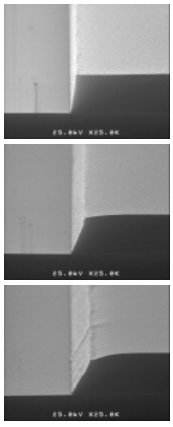


Substrate: Silicon
Resist Thickness: 1.85 µm
Soft Bake: 110° C / 60 sec
Exposure Tool: Canon FPA-1550 MII g-line stepper
Developer: HPRD 429 5 sec/7sec Double Puddle

CD:	2.0µm L/S
$E_{1:1}$:	160 mJ/cm^2
Substrate:	Silicon (HMDS primed)
Resist Thickness:	1.85 µm
Soft Bake:	110° C/60"
Exposure Tool:	Canon FPA-1550MII (g-line)
Developer:	HPRD 429 5 sec/7 sec Double Puddle



Thermal Stability



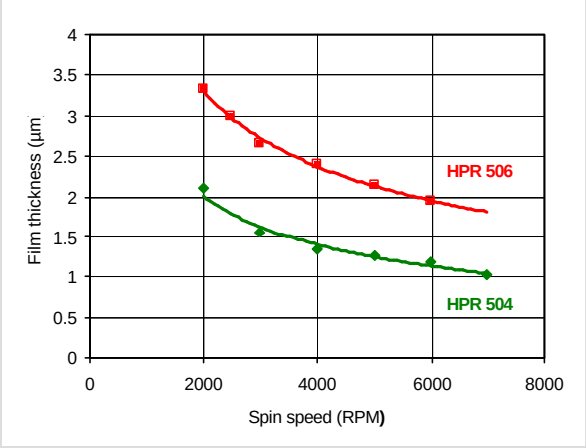
No Bake

120°C HB

125°C HB

Exposure: 180mJ
Substrate: Silicon
Thickness: 1.1410µm
Softbake: 90°C/60 "
PEB: 115°C/60 " Developer: HPRD-428
Dev. Time: 14"/40" Double Puddle

Film Thickness versus Spin Speed



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