



感光性層間絶縁材料

PVI-1, PVI-3 Series

Photo Imageable Dielectric Material

特徴 Features

- 高解像性 Smaller Via opening.
- 高絶縁信頼性 High insulation reliability.
- 高密着性 Excellent Peel Strength.
- ドライフィルムタイプ Dry Film type.

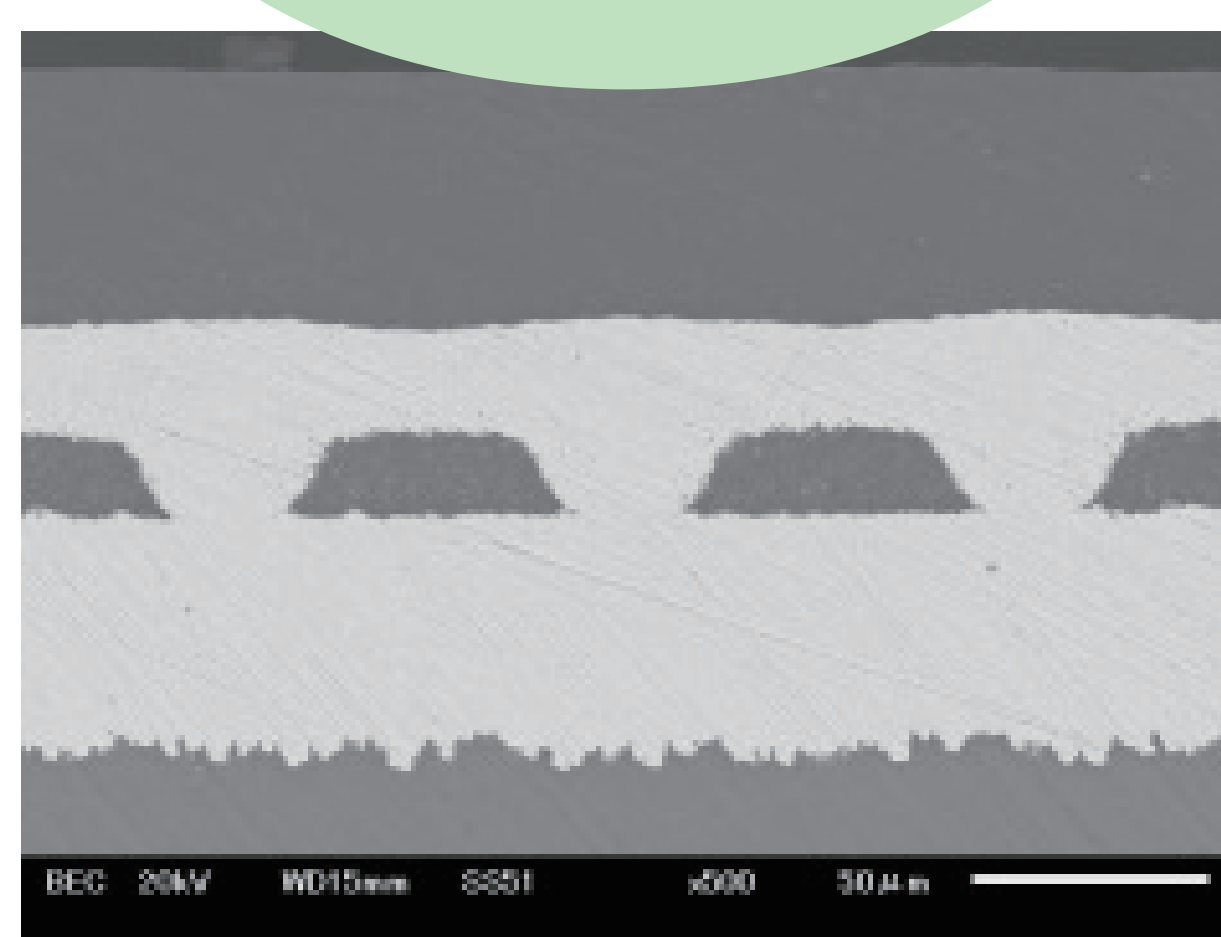
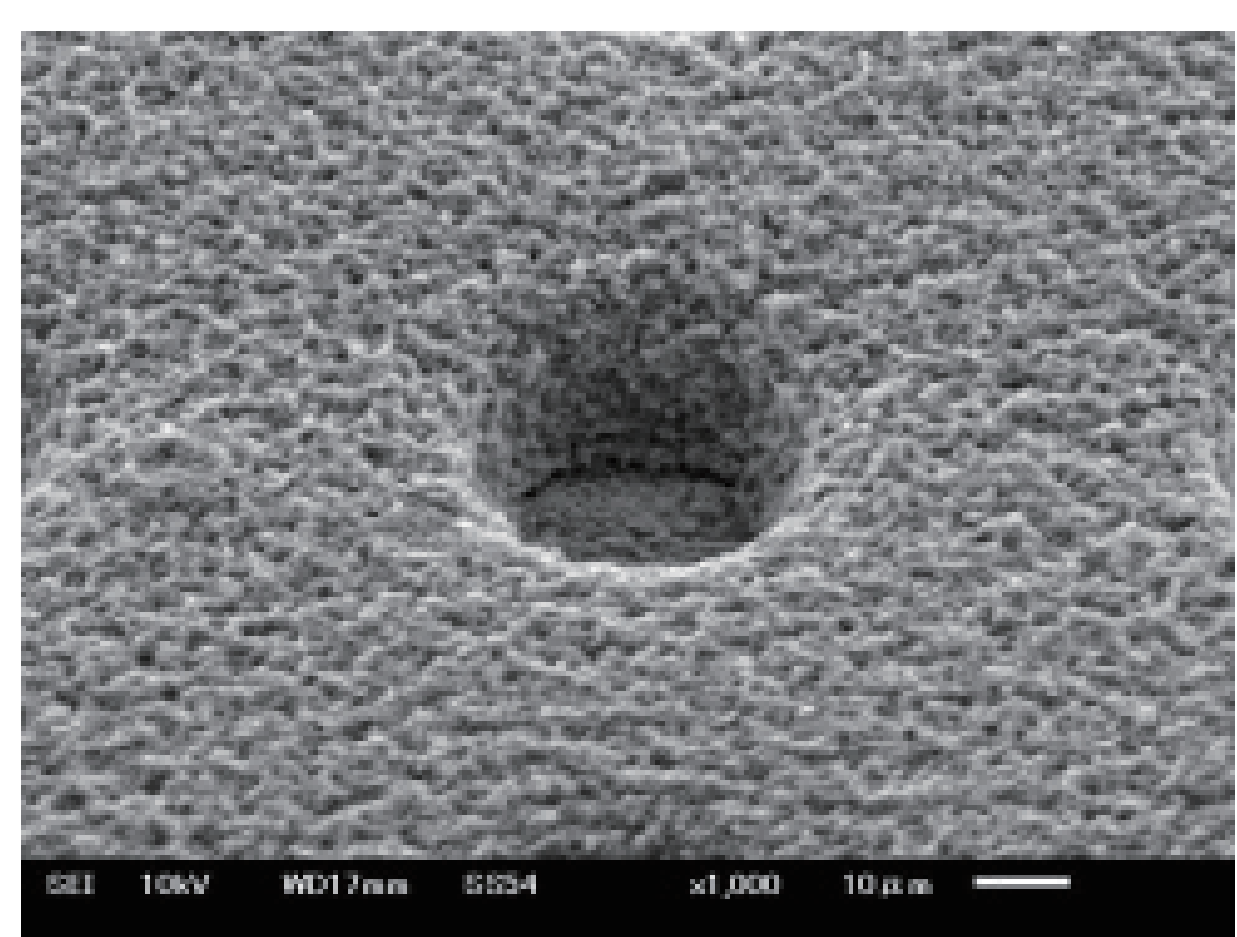
PVI-1 EL100 (Desmear Compatible Model)

Resolution



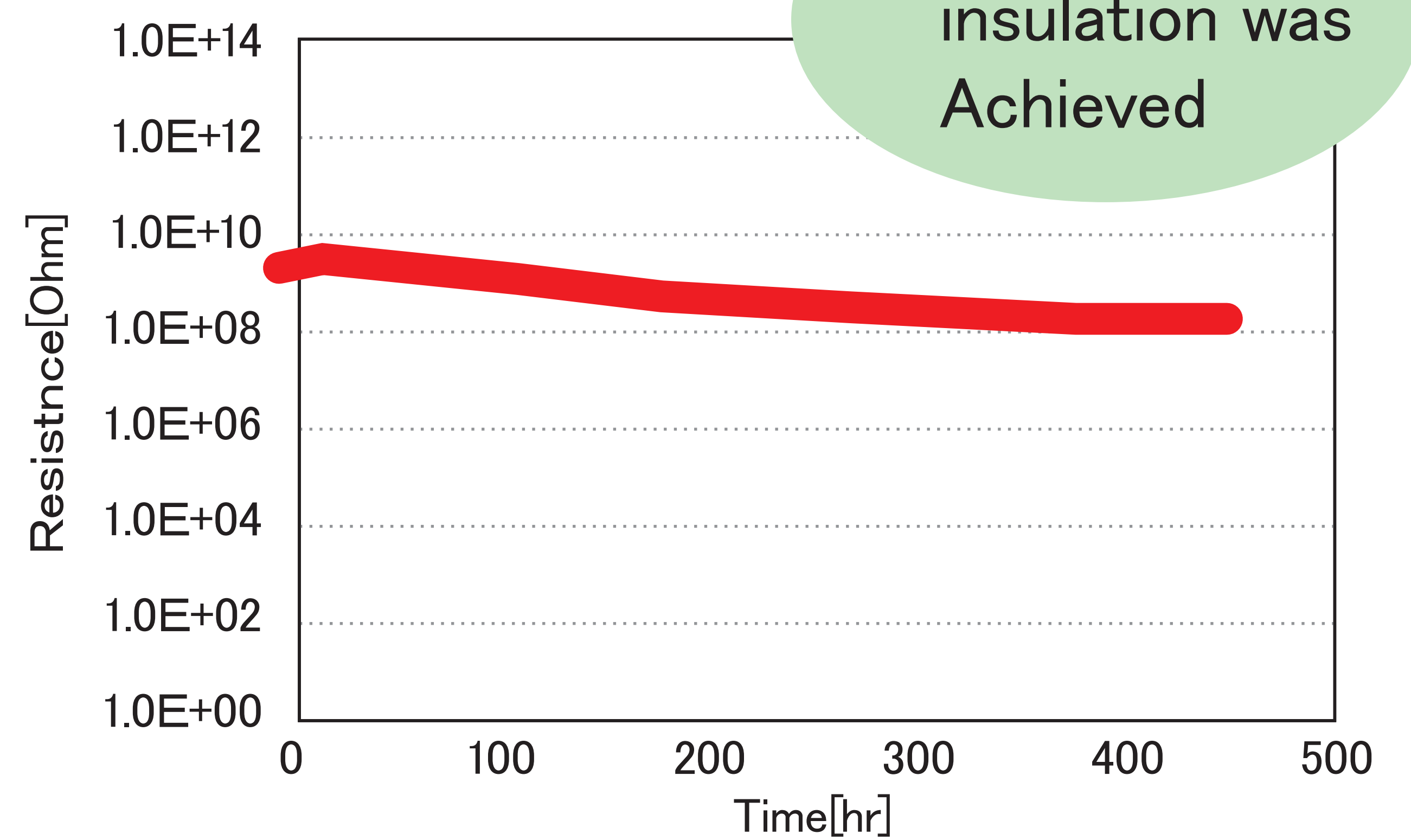
φ 40um Via
PID Thickness 25um

Peel Strength
over 0.5kgf/cm



Insulation B-HAST

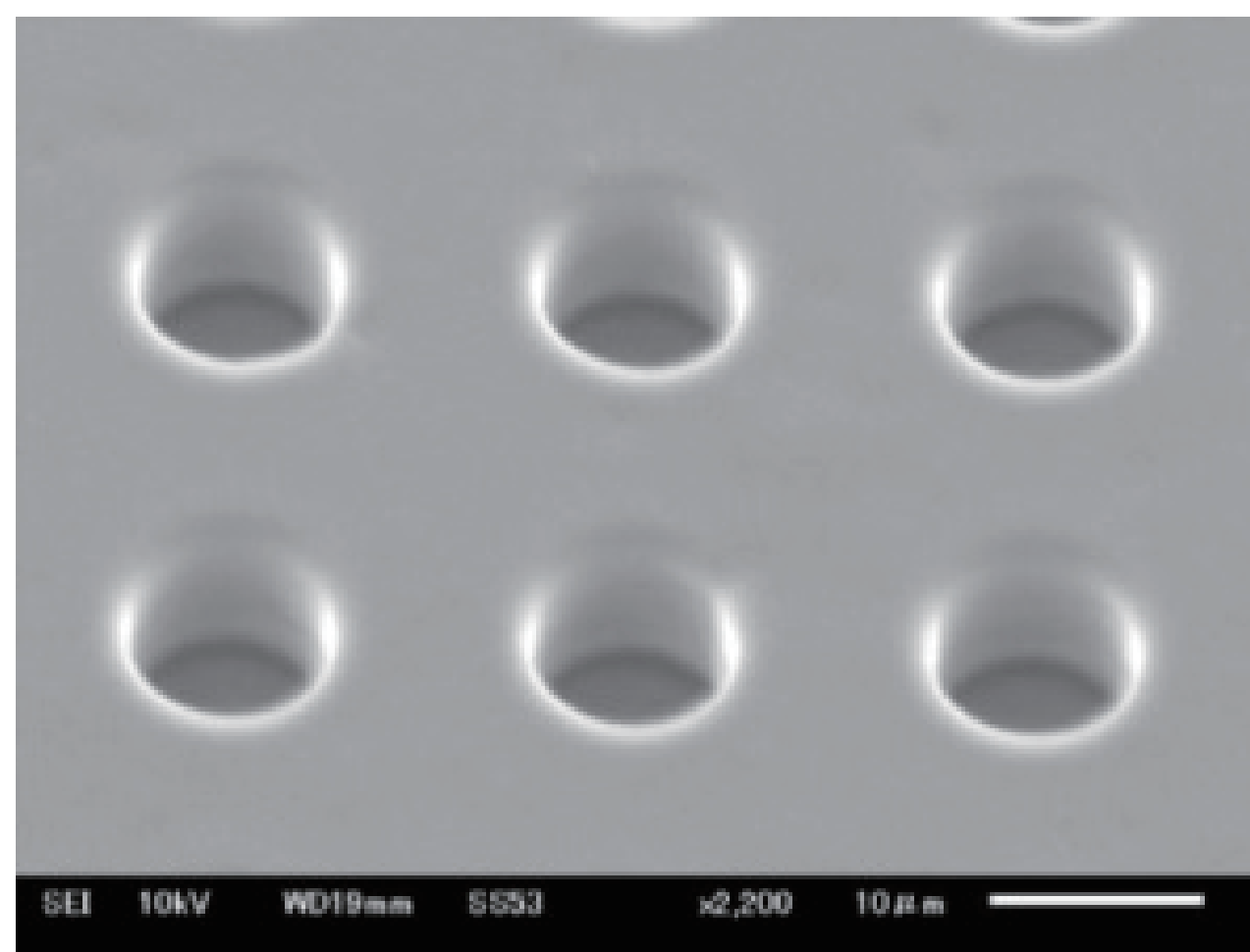
Between lines (L/S=12/13um)
130deg.C 85% 5V



PVI-3 HR100 (High Resolution Model)

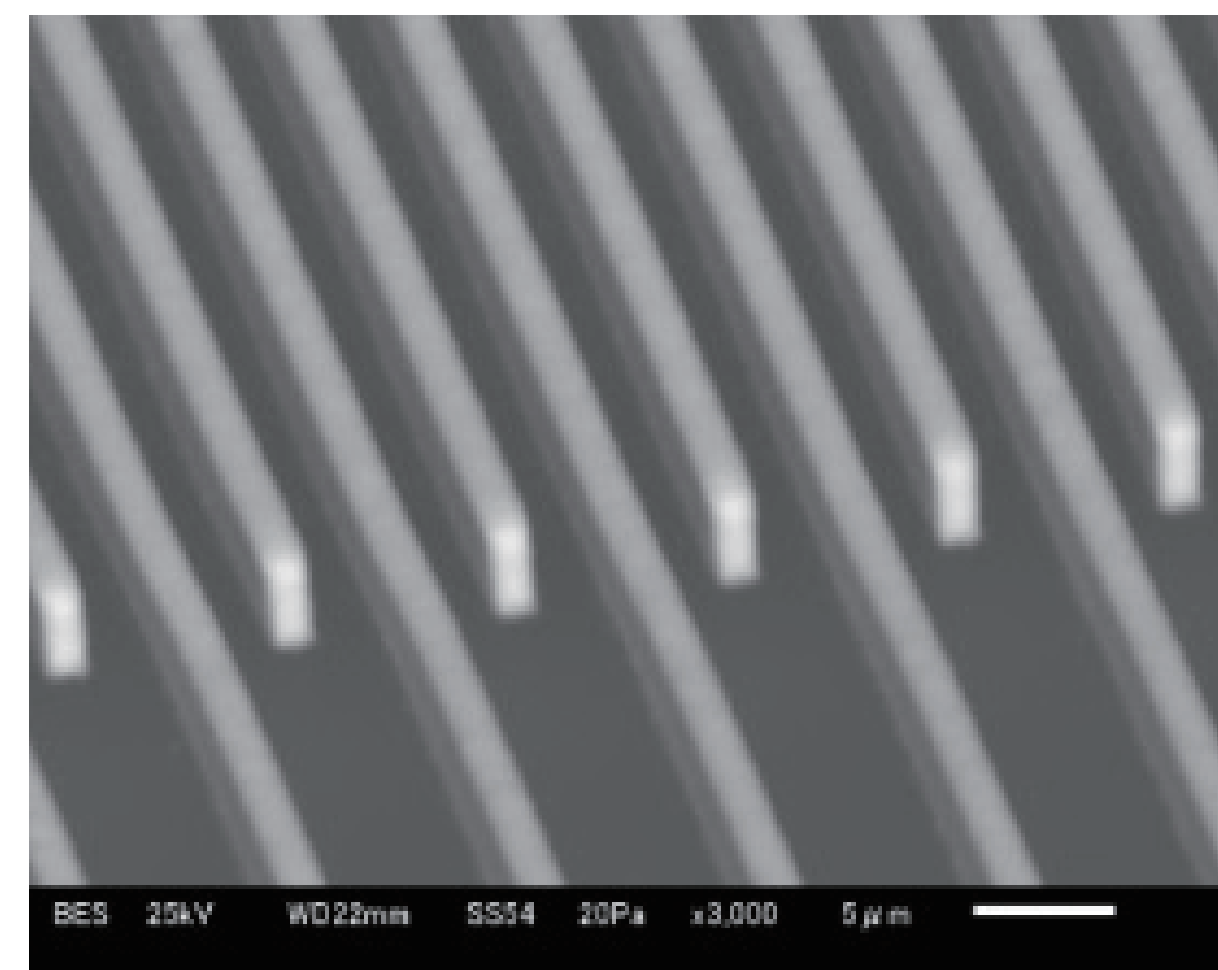
Resolution

6um Via / Thickness 10um



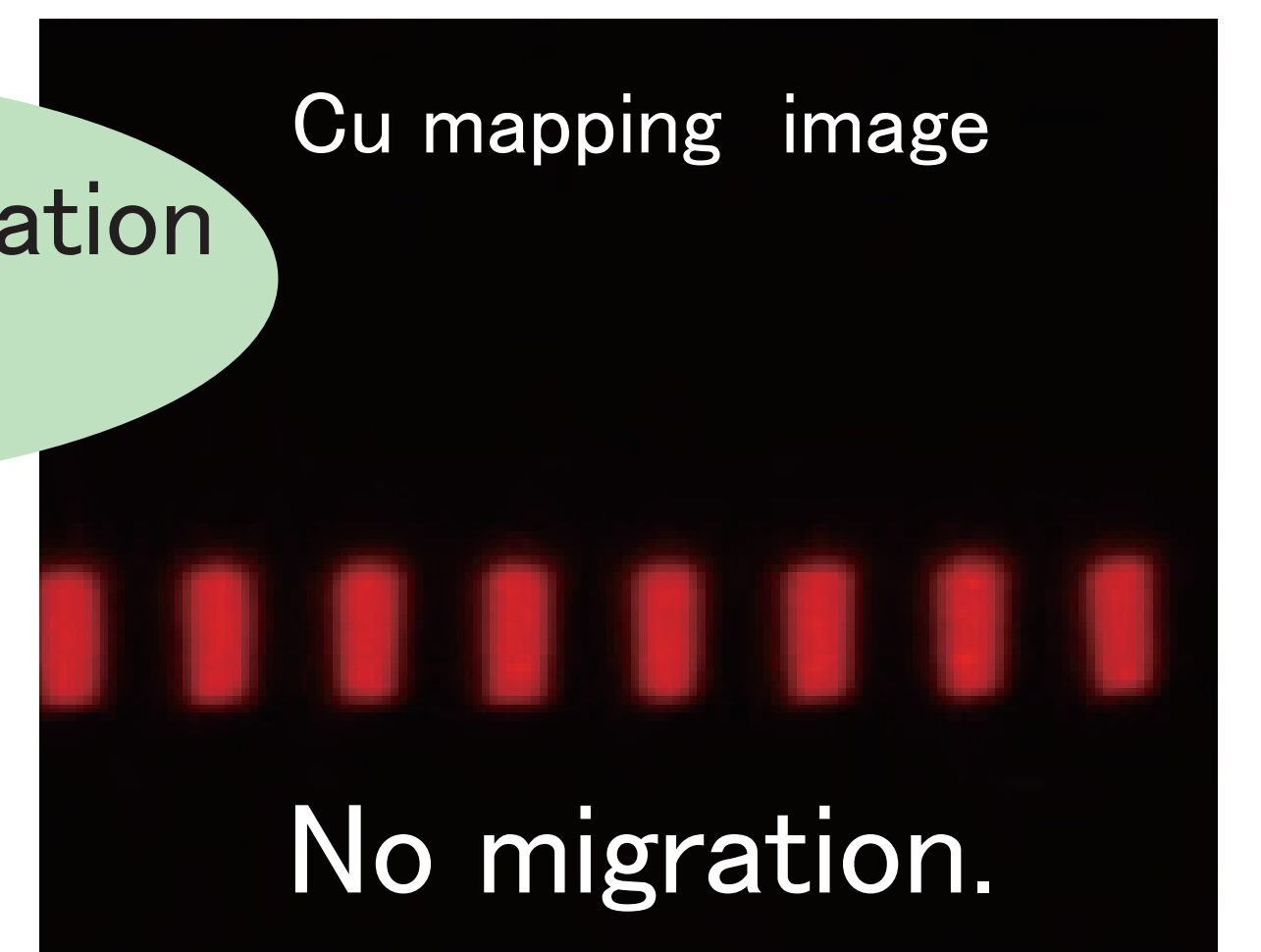
Insulation BHAST Cross section View

Between lines (L/S=2/2um) 130°C 85% 5V



Over 300hr insulation
was achieved.

Cu mapping image



No migration.

特性 Properties

Test Items	PVI-1 EL100	PVI-3 HR100
ガラス転移点 Tg(*TMA method)	160 -165°C	180 -185°C
線膨張係数 CTE(α1)	45 - 50ppm	30 - 35ppm
弾性率 Elastic Modulus	3.5 - 4.0GPa	3.5 - 4.0GPa
破壊強度 Tensile Strength	75 - 80MPa	90 - 95MPa
破壊伸び率 Elongation	5.0 - 5.5%	5.5 - 6.0%