



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.

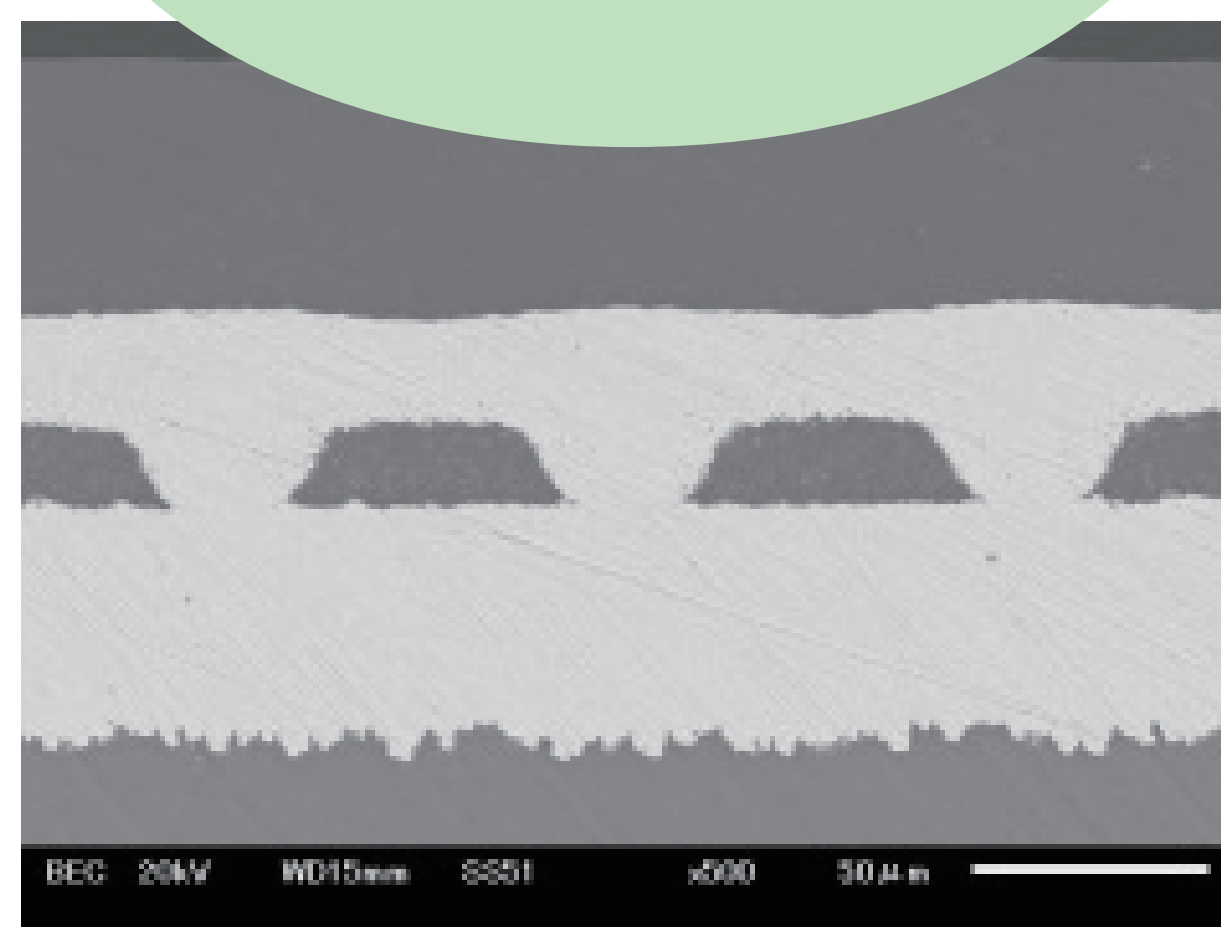
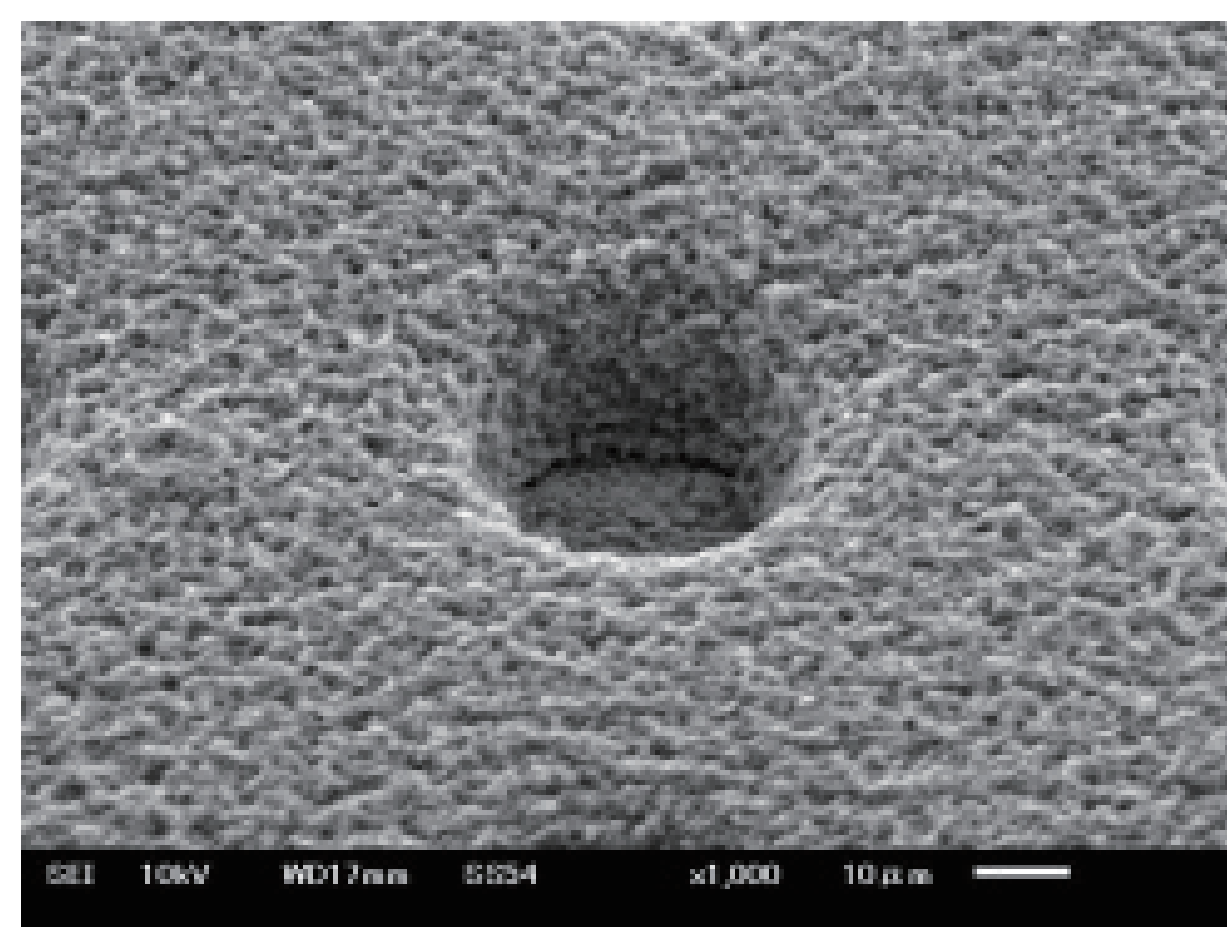
PVI-1 EL100 (Desmear Compatible Model)

Resolution



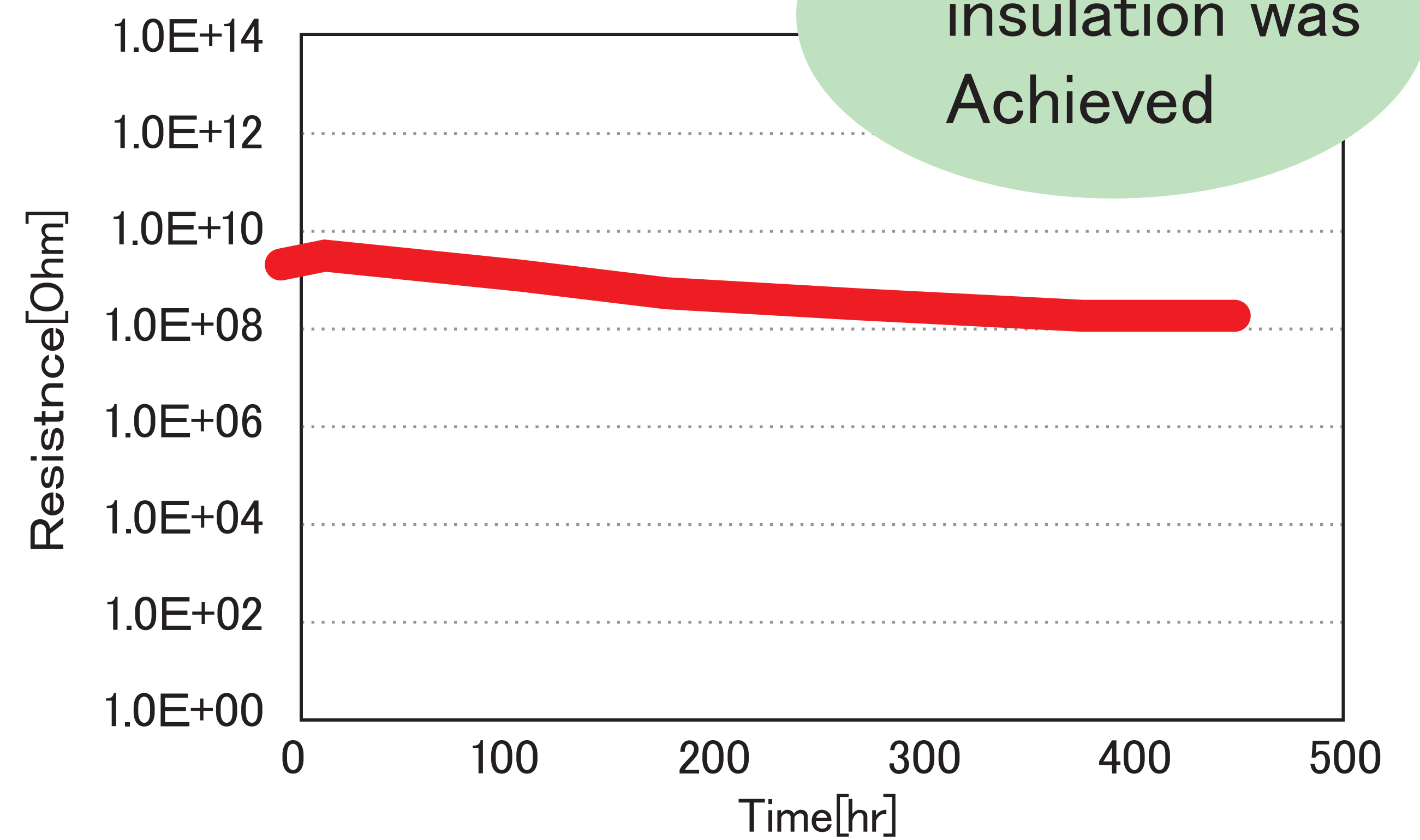
φ 40um Via
PID Thickness 25um

Peel Strength
over 5 N/cm



Insulation B-HAST

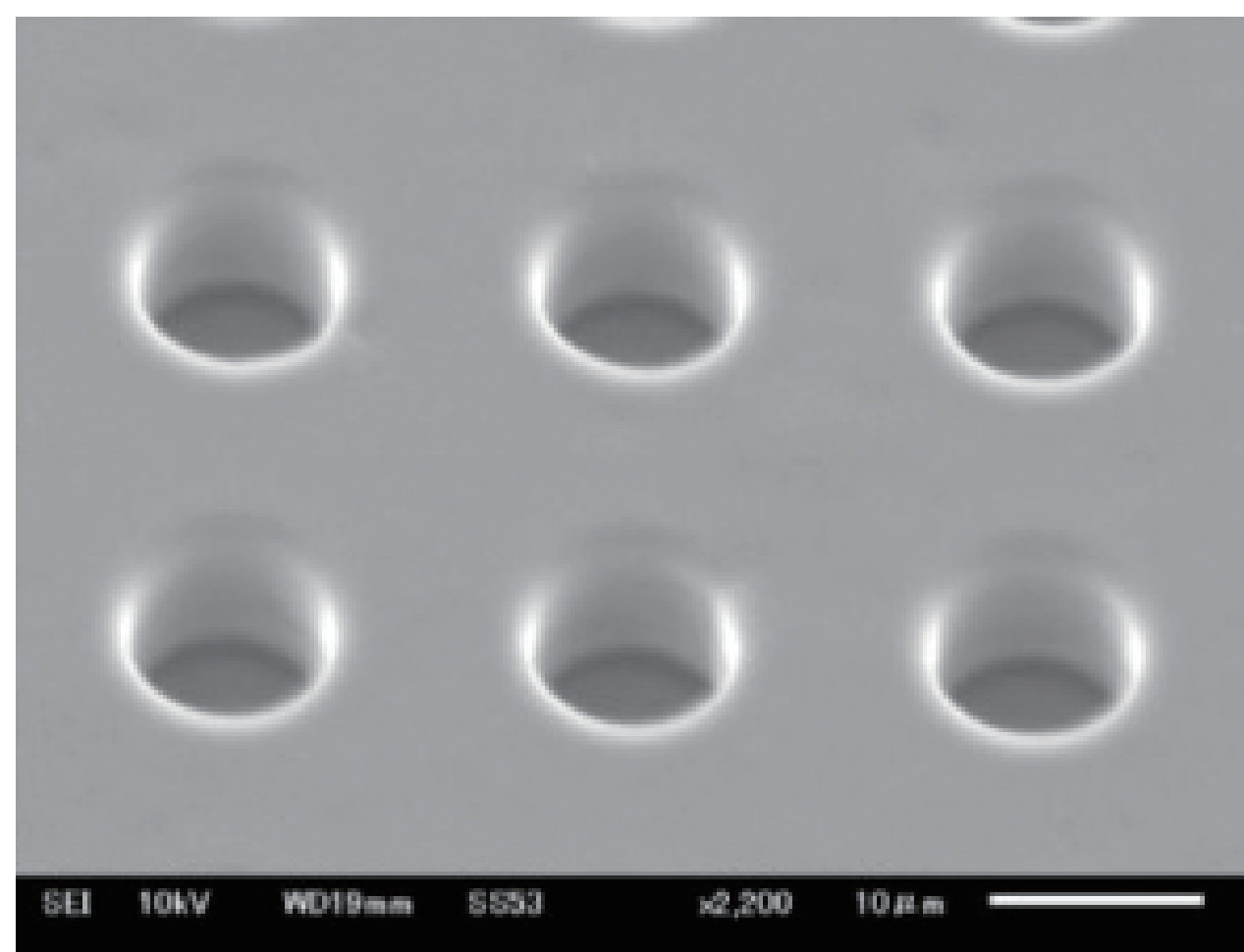
Between lines (L/S=12/13um)
130deg.C 85% 5V



PVI-3 HR100 (High Resolution Model)

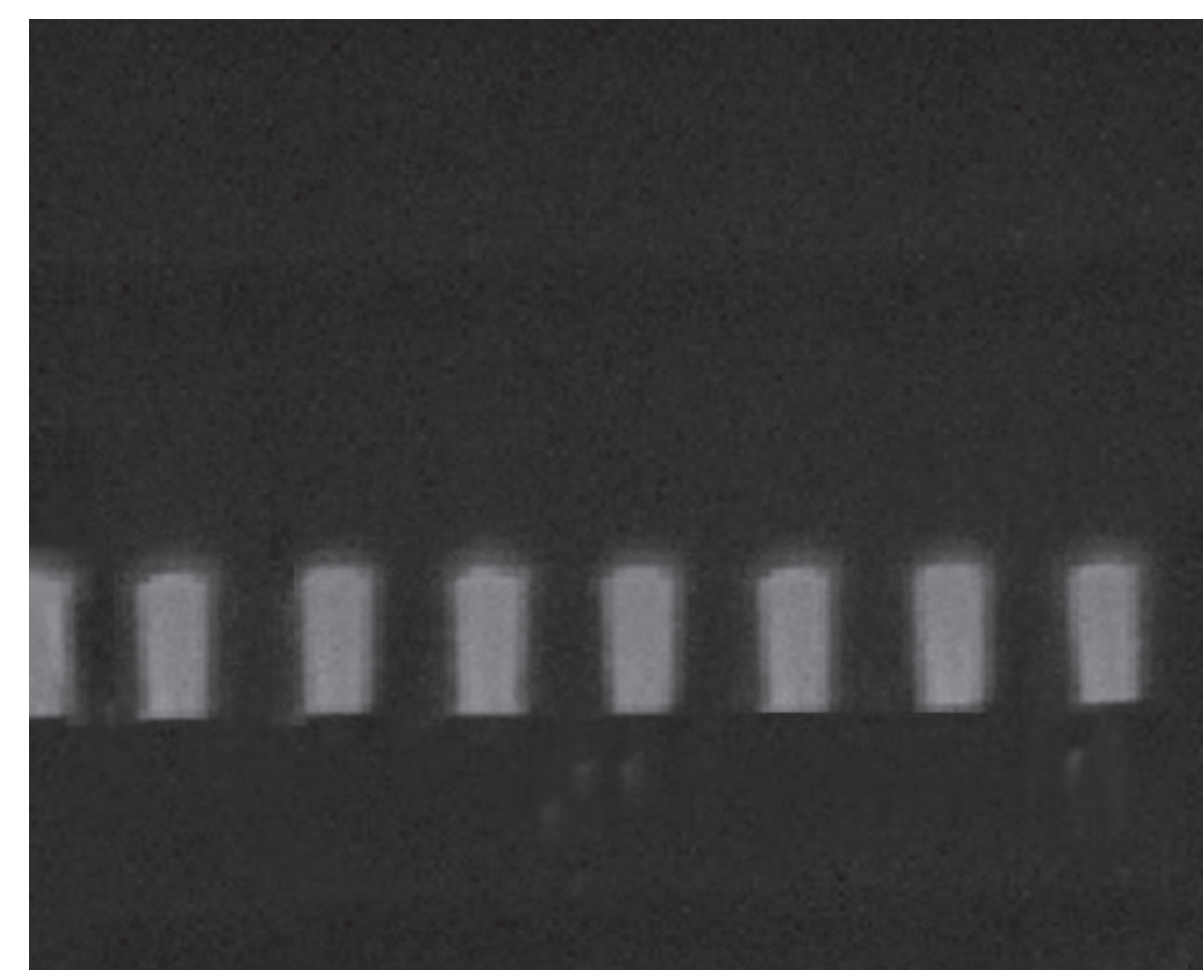
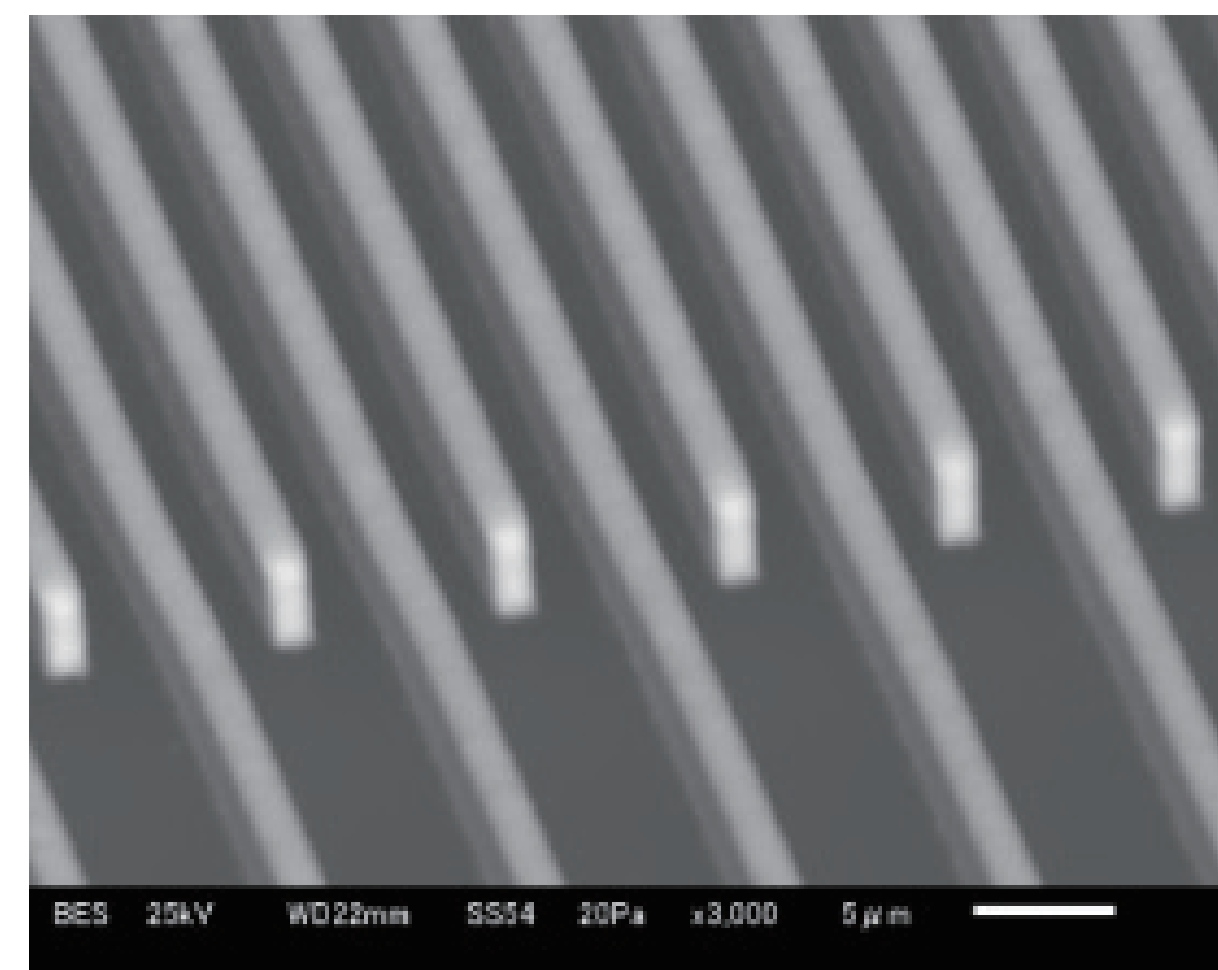
Resolution

6um Via / Thickness 10um



Insulation BHAST Cross section View

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



特性 Properties

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