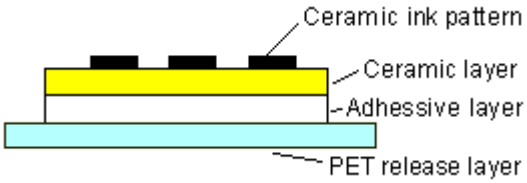
Ceramic Barcode Label

Technical Data Sheet

Unfired ceramic barcode label. This barcode label is fused onto the product during the heat treatment process of the production line.Labels can be printed on-site by regular thermal transfer barcode printers with special ink ribbons.When fused onto glass, metal, or ceramic, they transform into longlasting ceramic barcode labels that resist heat and chemical.

Specifications

Construction	
Material	Unfired ceramic
Thickness	0.03 to 0.12 mm
Mounting	Temporary fixation with back side adhesives, then fused to the material after firing.

Type

Type	Firing temperature	Fussible material
TLB-S400	400 to 600°C	Aluminum, glass, ceramic, stainless steel, Pyrex glass, chinaware
TLB-S450	420 to 600°C	Glass
TLB-S600	550 to 650°C	Stainless steel, ceramic, glass
TLB-S800	750 to 900°C	Stainless steel, ceramic, chinaware
TLB-S1000	900 to 1100°C	Stainless steel, ceramic, chinaware
TLB-S1250	1100 to 1250°C	Sanitary ceramicwares

Chemical Resistance

- Good.
- S400 and S450 labels may be treated for chemical processing as described below, before firing. After the label is fired, the barcode can be read.
  NaOH (8%, 20°C, 30sec.) > HF (8%, 20°C, 30sec.) > NH4F (5.5%, 20°C, 30sec.) >Fired

Application

- Production control and quality control for FPD glass panel for TV.
- Quality control of automobile glass.
- Glass equipments, vials for laboratories.
- Heat treatment processes for aluminum ingot.
- Firing processes for sanitary ceramicwares.
- Firing processes for ceramic electronic parts.
- Production control of steel billet.

Firing condition