



PROCESS SCOPE

Screen Printing Process Guide

Public overview of artwork preparation, printing, curing, inspection and conversion for printed interface products.

Products Graphic overlays, printed circuits and interface components	Inputs Approved artwork, materials, color targets and process plan
Outputs Printed and inspected layers ready for conversion or assembly	Control Product-specific settings remain in controlled work instructions

Customer part numbers, confidential BOM details and product-specific process settings are intentionally excluded from this public guide.

1. Public Process Flow



2. Pre-Production Inputs

Input	Required definition
Artwork	Revision, scale, units, colors, layers, windows and datums
Substrate	Material family, surface, thickness and handling requirements
Ink system	Functional type, color target and compatibility with the substrate
Registration	Critical relationships among graphics, contacts and cut features
Acceptance	Appearance, dimensions, electrical function and approved samples



PRINTING AND CURING

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3. Screen and Setup Controls

Control	Process intent
Screen preparation	Match image quality and deposit requirements to the layer
Registration setup	Align to controlled datums and verify first-piece position
Ink preparation	Mix, condition and identify material under process control
Print setup	Set product-specific parameters in the controlled instruction
First-piece review	Confirm appearance, coverage and registration before the run

4. Printing and Curing Controls

Stage	Quality focus
Printing	Coverage, edge definition, contamination and registration
Intermediate cure	Layer stability and compatibility with later print operations
Final cure	Complete cure under the approved process window
Handling	Protect printed surfaces from abrasion, dust and distortion
Traceability	Record material lots, work order, operator and inspection status

Process temperatures, times and print settings are product-specific manufacturing controls, not universal public specifications.



INSPECTION AND RELEASE

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5. Inspection Groups

Inspection	Acceptance focus
Visual	Color, opacity, coverage, contamination and surface condition
Registration	Graphics, windows, contacts and cut features
Dimensional	Controlled geometry after printing and conversion
Electrical	Continuity, resistance or function where applicable
Adhesion / cure	Project-defined evidence for the selected material system

6. Conversion and Assembly

- Protect printed layers during cutting, embossing and lamination.
- Maintain datum relationships through each conversion step.
- Use approved materials and revision-controlled assembly instructions.
- Reinspect affected characteristics after rework or authorized deviation.

7. Release Record

Record	Content
Material traceability	Substrate, ink and adhesive identification
Process status	Completed operations and controlled instruction revision
Inspection	Results, findings and disposition
Approval	Release status and responsible quality record

The public guide describes the workflow; controlled instructions govern each product.