



PomPrint Stencils

Technical data for PomPrint Stencils

General

- Stencil material standard POM uncoated
- Variant with stencil material for antistatic behaviour ESD design only 3.00 mm thick (specific surface resistance according to IEC 60093 105 - 108 Ω)
- Stencil thickness: 2.0 / 2.5 / 3.0 or 10 mm and stronger, intermediate sizes on request
- Use in the frame or self-mounting system (Alpha Tetra, Stencilman, Quattroflex, VectorGuard, others on request)
- Residual material thickness for relief milling grooves: 0.5 +/- 0.1 mm
- Distance from aperture to relief milling groove: ≥ 0.6 mm
- DataMatrix code for labelling can be implemented
- PomPrint stencils must generally be treated carefully, like precision tools or measuring instruments
- Depending on the structure (degree of opening on both sides) and treatment of the stencil, approx. 50,000 squeegee cycles and more have been achieved.

Storage

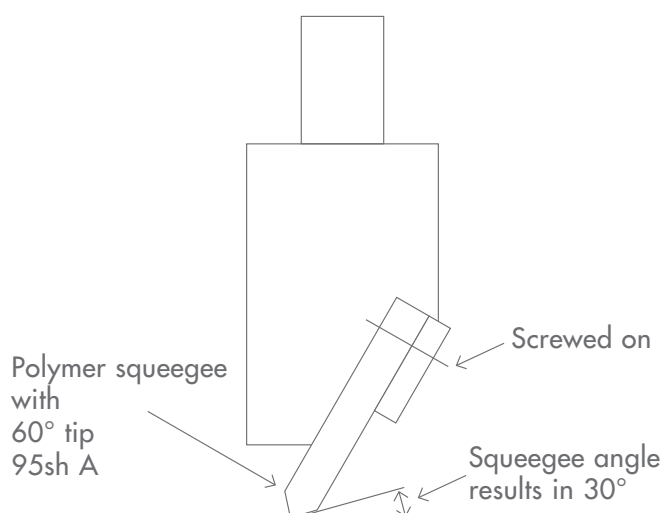
- Short-term storage (1-2 weeks) of stencils filled with Loctite 3616 adhesive:
 - Remove adhesive residues on the squeegee side
 - Wipe squeegee side + PCB side with a lint-free cloth
 - Place on a clean surface
 - Store horizontally ensuring contact over the entire surface (vertical storage, even for short periods, will result in bending of the stencil)
 - Clean environment (low dust, oil-free)
 - Covered to ensure that the stencil is not subject to any air (in particular humidity and dust)
 - Protected from sun light
 - Dry
 - Cool (between approx. 12 up to max. 21°C)
 - Formation of condensate as a result of excessive temperature variations must be avoided
 - Please observe datasheet of the adhesive manufacturer
 - Individual tests to confirm these specifications are indispensable





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- Cleaning and storage of PomPrint stencils for adhesive and paste print:
 - Remove adhesive residues on the squeegee side
 1. Machine cleaning: Clean stencil in washing system with cleanteCK SK 700.
Please observe the datasheet of the adhesive or paste manufacturer when selecting the cleaning medium.
Stabilise stencil during washing and drying to allow for linear expansion and prevent bending.
or
 2. Manual cleaning: Wipe squeegee side and PCB side of stencil with a lint-free cloth.
With a brush size 1 to 3, hand brush with natural bristles, cleaning wipes (wet) SK 700 HR and careful use of compressed air and dry cloths.
Do not use alcohol for adhesives! Alcohol causes curing of many adhesives. Please observe the datasheet of the adhesive or paste manufacturer when selecting the cleaning medium.
- Ensure that stencils have dried completely before storage
- Store horizontally ensuring contact over the entire surface (vertical storage, even for short periods, will result in bending of the stencil)
- Clean environment (low dust, oil-free)
- Protected from sun light
- Dry
- At room temperature (approx. 23° C)





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Process

- Squeegee tools made from polymer material (95 sh B)
- Squeegee angle 30° (see picture)
- Switch off stencil bottom side cleaning in the printer
- If smearing is present, clean bottom side manually using a dry cloth

- General settings for adhesive print:
 - Ø Squeegee speed 25 to 30 mm/second
 - Ø Squeegee pressure 1 to 2 N/cm (clean squeegee pull-off)
 - Ø Separating speed less than 0.5 mm/second