



Product description

SEFAR® BASIC is the screen printing mesh range developed to cover the demands of the t-shirt, textile and ceramic printers. The compact product range is produced according Sefar standards.

Applications

- T-shirt
- Textile
- Ceramic

Mesh properties	Technical data*	Unit
Yarn material	High modulus polyester	PET
Color of mesh	White / Yellow	W/Y
Weave	1:1	PW

Scope of product range (Minimum to maximum values)

Mesh count	32 (83)	120 (305)	cm ⁻¹ (inch ⁻¹)
Tol. of mesh count	2 (5)	4 (10)	cm ⁻¹ (inch ⁻¹)
Thread diameter nominal	34	100	Ø in µm
Mesh opening	37	209	μm
Mesh thickness	52	163	μm
Tol. of mesh thickness	4	12	μm
Open area	20	45	%
Theoretical ink volume	12	73	cm³/m²

^{*}All values refer to untensioned mesh. Thread diameter nominal before weaving.

Guaranteed tension values

The guaranteed tension values in chart 1 were measured before gluing the mesh to the frame (Size: 1 m x 1 m, slope profile 50/40 mm x 38 mm x 3.2/2.0 mm). For larger frames and stretching sizes, the guaranteed tension value must be reduced by approximately 4% for each 0.5 m additional side length.

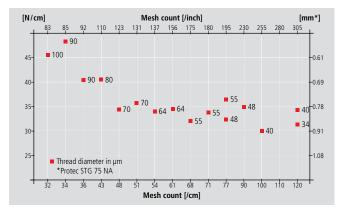


Chart 1: SEFAR® BASIC – guaranteed tension values

Long-term relaxation properties

The values in chart 2 refer to a tensioning process in which a tension of 30 N/cm is obtained within 3 minutes. A relaxation time of 5 minutes is observed before gluing to the frame (Size: $82 \text{ cm} \times 82 \text{ cm}$, slope profile of 50/40 mm x 38 mm x 3.2/2.0 mm). Depending on mesh type, the tension loss after 48 hours is 15-25% (Reference 30 N/cm), regardless of other parameters.

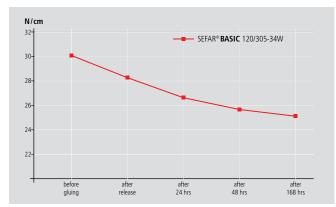


Chart 2: Tension loss

Chemical resistance of polyester

Polyester is generally acid resistant. However, high concentrations of strong acids in conjunction with high temperatures can limit the resistance. Alkaliresistance is limited. Ghost image removers generally contain alkaline substances. Instructions supplied by the manufacturers should be rigorously followed. Chlorine can cause bleaching of yellow-colored mesh. Polyester is resistant to all stencil cleaning solvents recommended for screen printing.

Processing instructions

The values given in chart 1 and 2 are in accordance with DIN 16610 and DIN 16611 (Screen printing industry standard), measured with the SEFAR® Tensocheck 100 and can only be guaranteed if the clamping system and the materials in use are adequate and meet the following requirements:

- SEFAR® 3A clamps or a pneumatic clamping system that ensures consistent and balanced tension
- Regularly maintained and clean clamps that are free from impurities that may damage the mesh during stretching
- A clamping system having sufficient clamping pressure (Prevents the mesh from slipping out)
- Suitable frame conditions (Profile, age, material and deformation)
- Proper condition of the frame surface (No dust or grease)
- Adequate pre-tensioning of the frame during the stretching process
- Quality, age and curing time of the adhesive system

Label and roll lengths

The label contains important information for further processing:

- Product line and mesh number
- Mesh width and mesh width tolerance (-0 cm / +4 cm)
- Weave type
- Gross roll length
- Invoiced roll length
- Piece number
- Date of fabrication
- Sefar identification code (SefID)

Identification of item	Roll length including tolerance
4AP077055P158WJ F	40 m +30/-15 m
4AP077055P158WJ L	15 m +9,9 /-10 m





Test conditions: All values refer to the following climatic conditions: Temperature 22 ± 2 °C, relative humidity of 50 ± 10 %. Aggressive chemicals and improper storage can negatively affect the physical properties of the mesh.

Note

The product data stated here and our advice on application technology, in verbal and written form and on the basis of tests and experiments, are provided to the best of our knowledge and belief; however, this information must be regarded as non-binding. It is based on our current knowledge and experience, and on standardized process and test conditions as per DIN standards 16610 / 16611 / 53804 and ISO 13934 / 5084. As many variations may occur due to each specific application, we are unable to provide an overall assessment regarding the range of fluctuations for processes and follow-up processes (i.e. parameters, interactions with materials and machines used, and chemical reactions). For this reason, the parameters we recommend should be understood merely as values for guidance purposes. All the illustrations, descriptions, data, diagrams and tables, etc., shown here may change without prior notice, and they do not represent the contractually agreed characteristics of the product. It is impossible for us to have control over the post-processing of our products, so the user is solely responsible in this regard.

Our products are sold and distributed in accordance with the latest version of our General Terms and Conditions of Sale and Delivery.







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