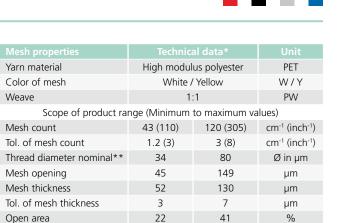


#### **Product description**

 ${\sf SEFAR}^{\circledast}\,{\sf GLASSLINE}$  is a wide range of medium-coarse screen printing mesh for industrial printing applications on glass. The properties of SEFAR® GLASSLINE are precisely tailored to the needs of the glass industry. Its precise mesh geometry, low elongation, high tensile strength and excellent stencil adhesion, ensure a lean stencil production process and flawless print quality.

#### Applications

- Automotive glass
- Construction glass
- Home appliance glass



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#### **Stress-strain characteristics**

Chart 1 shows the stress-strain behavior of virgin mesh (Size: 20 cm x 5 cm). The test is performed according to ISO 13934-1 and is evaluated according to DIN 53804.

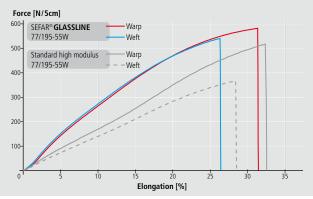


Chart 1: Stress-strain characteristics

#### Guaranteed tension values

Chart 2 shows the max. guaranteed tension values for a frame size of 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.

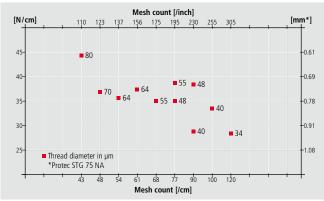


Chart 2: SEFAR® GLASSLINE - guaranteed tension values

### **Coating behavior**

Theoretical ink volume

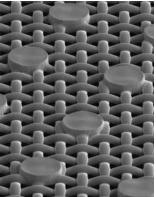
The surface treatment of SEFAR® GLASSLINE is optimised for the processing of direct emulsion. Thus, excellent stencil adhesion (Image 1 and 2) is ensured. Optimum stencil adhesion is achieved only when the stencil material is fully exposed.

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\*All values refer to untensioned mesh. \*\*Thread diameter nominal before weaving

53

cm<sup>3</sup>/m<sup>2</sup>



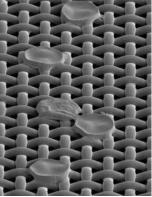


Image 2: Untreated mesh

77/195-55Y

Image 1: SEFAR® GLASSLINE 77/195-55Y

### Antistatic surface treatment

SEFAR® GLASSLINE provides good ink release and antistatic properties thanks to its special surface treatment (Image 3). Thus the susceptibility to attract dust is reduced. The static charge during print is also reduced in the printing areas.

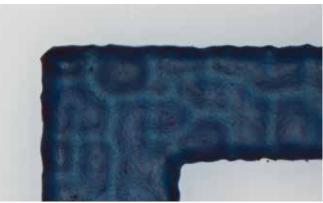


Image 3: Printed with SEFAR® GLASSLINE

# SEFAR<sup>®</sup> GLASSLINE



# Physical properties of polyester

- Low elongation
- Good mechanical resistance
- UV light-resistant
- Insensitive to climatic influences
- Good resilience

# 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 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 labeling contains important information for further processing:
- Product line and mesh number
- Mesh count and mesh count tolerance
- Mesh thickness and mesh thickness tolerance
- Mesh width and mesh width tolerance (-0 cm / +4 cm)
- Weave type
- Gross roll length
- Invoiced roll length
- Piece numberDate of fabrication
- Sefar identification code (SefID)

Identification of sales roll	Roll length including tolerance
4AJ077055P158Y0 <b>E</b>	30 m +/-3 m
4AJ077055P158Y0 <b>G</b>	50 m +/-5 m
4AJ077055P158Y0L	15 m +11,9 m/-10 m

**Test conditions:** All values refer to the following climatic conditions: Temperature 22  $\pm$  2 °C, relative humidity of 50  $\pm$  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 13934-1 / 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 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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