SEFAR® **PME**

The best performing screen printing mesh

swiss
mesh
technology

SEFAR

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SEFAR® PME is the best performing range of screen printing mesh for printers who need to expand the capabilities of their screen printing process. The mesh is made from an innovative, high modulus, high tensile strength yarn developed and manufactured by Sefar. This screen printing mesh solution offers stencil makers and printers maximum precision in extremely tight tolerances. SEFAR® PME enables the efficient and reliable production of stencils that allow for printing of the most demanding, high volume products – meeting the highest quality demands.

Mesh features	Screen / stencil maker benefit	Printer benefit
High modulus polyester yarn with increased tensile strength	▪ Higher peak tension achievable ▪ Reduction of the risk of mesh tearing ▪ Safe and efficient stretching operation ▪ Process and product reliability	▪ Accurate reproduction of fine structures with demanding ink and paste systems on print- critical substrates ▪ Improved dimensional accuracy in the production-run because of higher tensions ▪ Reduction of the risk of stencils tearing
Balanced and low mesh elongation	▪ Stable mesh geometry during stretching ▪ Rapid achievement of stable tension ▪ High reproducibility of specified mesh tension values ▪ Standardization of the stretching process	▪ Lowest image distortion ▪ Dimensionally precise reproduction behavior in the printing process ▪ Reduction of risk of moiré because of balanced mesh count ratio
Minimal loss of tension	▪ Reduced relaxation times result in increased utilization of clamping systems ▪ Predictable, minimal tension loss between stretching and printing process ▪ Process and product reliability ▪ Increased productivity	▪ Increased printing speed because of reduced snap off and squeegee pressure ▪ Constantly accurate reproduction of fine structures at the highest quality level ▪ Increased number of stencil decoating cycles and screen reutilization rate
Adhesion optimized surface treatment	▪ Homogeneous coating and constant application of all emulsions ▪ Easy and safe capillary film application because of excellent wetting properties ▪ Superior stencil adhesion expands resolution capabilities of fine details	▪ Outstanding stencil adhesion expands printable range of fine details ▪ Constant line widths and clear detail reproduction even during high print runs ▪ Increased stencil lifetime due to optimized adhesion properties
Resolution optimized mesh color	▪ Accurate transfer of the printing image on the stencil ▪ Absorption range matched to the exposure spectrum for a good detail resolution	▪ Faithful and less-loss reproduction of the printed image
Uncompromised paste and ink release	▪ Homogenous and constant adhesive application	▪ Maintenance of the tightest color tolerances and the required electrical conductivities ▪ Able to print higher viscous ink or paste systems due to increased open mesh area
Good antistatic properties	▪ Simple, reliable and user-friendly screen production ▪ Reduced susceptibility to dust in the stencil production ▪ Reduction of pinholes and retouching	▪ Production reliability thanks to reduced risk of pinholes ▪ Error-free, smooth and clean printing ▪ Reduction of waste and increased production efficiency
Knot and fault indication	▪ Efficient, rational stencil production and quality control ▪ Optimized mesh utilization ▪ Reduction of the mesh waste and stencil rejections	▪ Reduced downtime of the printing press ▪ Increased production efficiency ▪ Waste and cost reduction
Developed and manufactured to meet the highest industry standards	▪ Most consistent mesh and stencil measurement ▪ Process reliability through consistent quality control	▪ Process reliability because of high quality stencils ▪ Repeatable and uncompromising reproduction performance and printing quality

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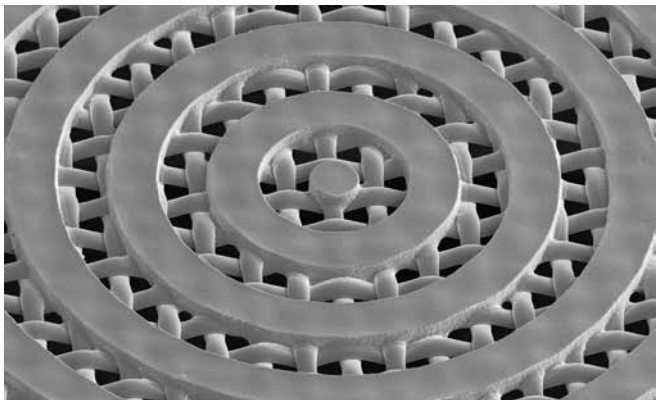
Driven by innovation

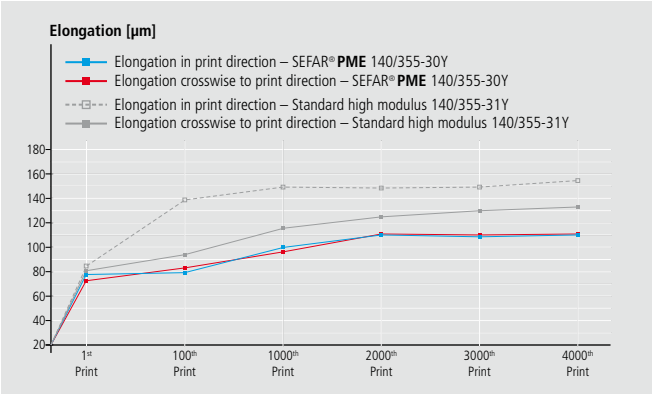
Today, printers need to expand their capabilities of screen printing further. With the ongoing development of the assortement, Sefar offers screen printing mesh solutions to further optimize your screen printed products. SEFAR® PME removes the barriers to allow for finer printable images. Thinner yarn gives the mesh a large open area that allows razor-sharp printing of the finest details even in the largest screen sizes, due to the even-greater mesh strength.



Sharp edged 80 µm circle line exposed on SEFAR® PME 140/355-30Y

Outstanding mesh properties

SEFAR® PME has incredible stability, very low elongation and industry leading adhesion and antistatic properties resulting in highest production efficiency and precision in the manufacturing process. With SEFAR® PME, specified process parameters are realized safely and repeatedly. Even the longest print runs are produced having unprecedented dimensional stability with minimal image distortion.



Outstanding dimensional accuracy over the whole print run

Applications

SEFAR® PME has proven unbeatable, especially when going to the limits of what is possible in screen printing, particularly in the industrial production of printed electronic components and functional coatings as well as in all other applications that require highest screen printing performance.

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Whether edge masking or protective coatings printed with SEFAR® PME 140/355-30Y

In the fast lane with the highest efficiency and quality printed with SEFAR® PME 110/280-35Y

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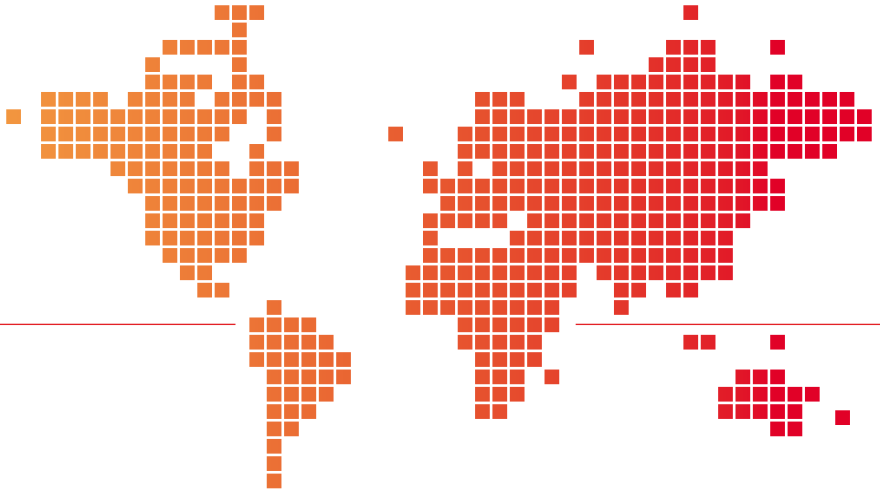
Clear and durable signs and inscriptions printed with SEFAR® PME 150/380-30Y

Functional layers and conductive paths in highest quality printed with SEFAR® PME 130/330-30Y

Mesh assortment

The SEFAR® PME range is tailor-made to today's and tomorrow's technical screen printing requirements of your application. Choose from our product portfolio the ideal screen printing mesh solution for your projects. For specific advice on your application please contact your local Sefar sales representative.



Sefar worldwide

Sefar is the leading manufacturer of precision fabrics from monofilaments for the screen printing and filtration market. Sefar products are used in a wide variety of industries, reaching from electronics, graphics, medical, automotive, food and pharmaceutical applications to aerospace, mining & refining and architecture. With its profound understanding of the applications Sefar helps its customers to achieve optimum results in their industrial processes. Subsidiaries and fabrications centers around the world provide local technical service for the broad range of solutions offered by Sefar.

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Please consult the most current local product data sheet prior to any use.

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