



Filtration Solutions
Household Appliances

S E F A R
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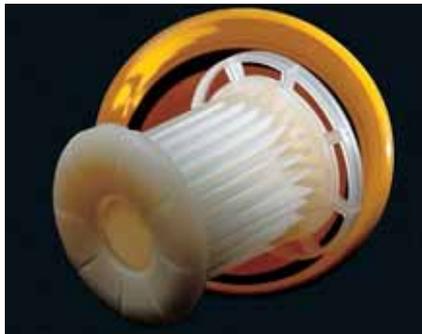
Sefar and the appliance industry

Millions of household and commercial appliances are used throughout the world on a daily basis. These labor-saving devices can do the washing-up, wash and dry clothes, make perfect coffee, purify drinking water and do many other tasks that improve our quality of life.

Appliance designers rely on Sefar's precision woven fabrics to achieve maximum performance. Their high strength and precise mesh openings contribute to the appliance's high-quality performance and durability. Manufacturers appreciate the dimensional stability and consistent filter geometry inherent in Sefar products. Sefar offers the largest range of woven and fabricated appliance filters available.

Dishwasher filters

The debris screen in a dishwasher acts as a safety filter to prevent food and other debris from entering the pump. This screen protects the pump vanes and assures high performance and long service life of the pump systems. The high filtration capacity and strength inherent in Sefar products provide the appliance designer the ability to minimize component sizes for even higher efficiency and performance. Sefar's wide selection of pore sizes and polymers ensures we have the right screen for your requirements.



Water filters

Domestic water purification systems incorporate carbon granules and molecular sieves to remove a wide variety of chemicals. OEMs of these filters utilize Sefar screens to retain granules in the filtration cartridge and prevent them from entering the drinking water. The precise openings and high throughput capacity of Sefar screens make them the ideal choice for this application. Sefar screens are made from polymers such as polyamide, polyester and polypropylene to provide the widest range of compatibility with the polymers in the filter cartridge.

Clothes dryer lint filters

Domestic and commercial clothes dryers utilize screens in the heat exhaust duct to capture lint before it can build up inside the ducting. This helps prevent ducts from becoming clogged with lint – which would reduce the dryer's efficiency and could lead to a fire hazard. Special high-temperature resistant PEEK™ fabrics can be used in critical applications.

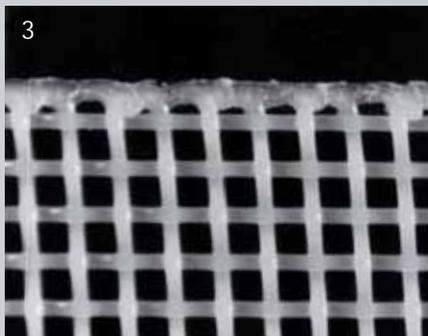
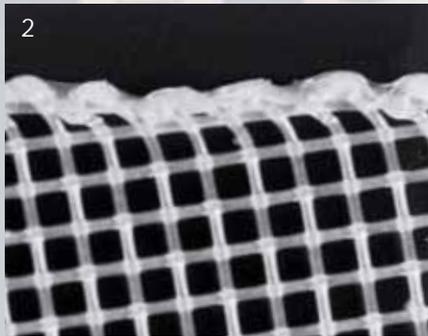
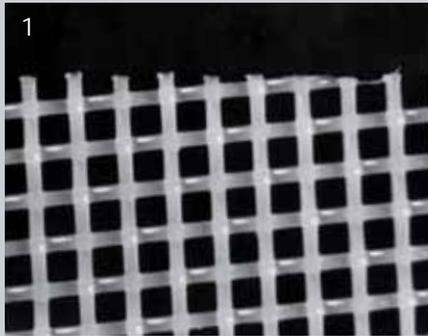


Coffee filters

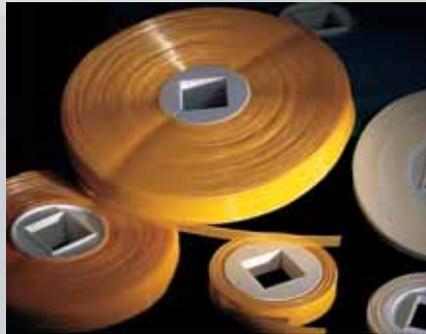
Domestic coffee makers increasingly rely on re-usable, washable filters to provide consistent results throughout the life of the appliance. Designers rely on Sefar's precise pore sizes and high flow rates to retain the coffee grounds while allowing unobstructed passage of the hot water through the brewing system. Sefar screens made from polymers such as polyester, polyamide and PEEK™ are excellent choices for these applications.

Select the best filter configuration

The edge quality differs significantly depending on the stamping or slitting technology and on the fabric type. Typical edge qualities are shown below:



Edge quality
1 Cold-cut edge
2 Heat-slit edge
3 Ultrasonically-slit edge



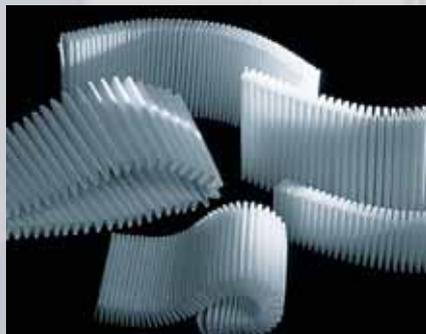
Ribbons

Fabrics can be heat or ultrasonically slit. Ribbon width ranges from 7 mm to 2400 mm (heat-slit) or from 4 mm to 350 mm (ultrasonically-slit).



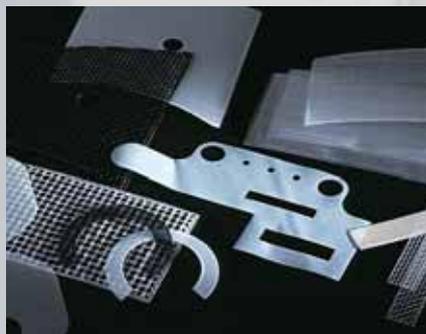
Tubes, bags, cut to length

Fabrics, single or multilayer, can be fabricated into heat-slit tubes (for transport only), \varnothing 8 mm to 50 mm, or ultrasonically-welded tubes, \varnothing 3 mm to 250 mm. Flat bags are welded and cut to length by cold- or laser-cut.



Pleated elements

Mono- and multi-layered pleated elements are available in the following dimensions: Pleat width ranges from 25 mm to 1200 mm; pleat height ranges from 6 mm to 50 mm; pleat counts are unlimited.



Shapes and stamped pieces

Sefar fabrics can be provided pre-cut in virtually any configuration. Cold stamping is the most economical process and provides standard-tolerance pieces with edges that might fray. Laser cutting provides high-tolerance pieces with fray-resistant edges and ultrasonically-stamped parts have high tolerance capacity and sealed edges.

IMPRESSA 5000

The Sefar advantage for injection molders

Sefar products are manufactured for maximum compatibility with the injection molding process.

Insert molders like Sefar material because it's easy to handle, has a high degree of cleanliness, even surface properties and consistent thickness. Customers benefit from Sefar's worldwide distribution and first-class supply system that guarantee a quick response and reliable deliveries.

Select the right filter media

End-use conditions will determine which fabric is best suited for your application. In general, polyester and polyamide fabrics will provide the best combination of chemical and temperature resistance. For extreme temperature or chemical environments, we offer PEEK™ and fluorinated materials.

SEFAR® S-TEX

In order to fulfill the strict requirements of injection molders and filter bag manufacturers, Sefar provides a special fabric range for this industry.

SEFAR® S-TEX fabrics are characterized by:

- repeatable pore size and accurate filtration performance
- high dimensional stability and tensile strength
- consistent fabric stiffness and thickness
- ready availability and short delivery times

The SEFAR® S-TEX product range includes the following fabrics (PA/PET = material, 50 = mesh opening in µm, 75 = fabric thickness in µm):

SEFAR® S-TEX PA 50-75
SEFAR® S-TEX PA 60-80
SEFAR® S-TEX PA 80-125
SEFAR® S-TEX PA 100-125
SEFAR® S-TEX PA 120-135
SEFAR® S-TEX PA 150-155
SEFAR® S-TEX PA 200-180
SEFAR® S-TEX PA 250-225
SEFAR® S-TEX PA 300-240
SEFAR® S-TEX PA 400-330

SEFAR® S-TEX PET 40-130
SEFAR® S-TEX PET 100-110
SEFAR® S-TEX PET 150-150
SEFAR® S-TEX PET 200-160
SEFAR® S-TEX PET 300-245
SEFAR® S-TEX PET 800-500

Select the optimal surface treatment

Filter behavior can be fine-tuned for application-specific requirements by altering the surface properties of the fibers.

Sefar therefore offers a wide range of coatings and surface modifications to optimize the filtration performance. Customer-specific surface treatments can also be applied: our technical specialists will be happy to assist you in choosing the correct treatment.

Sefar Headquarters Sefar AG

Filtration Solutions
P.O. Box
CH-9410 Heiden
Switzerland
Phone +41 71 898 57 00
Fax +41 71 898 57 21
filtration@sefar.com

Sefar Filtration Inc.

Depew, NY
Phone +1 800 995 0531
Fax +1 716 706 0154
filtration@sefar.us

Monterey Park, CA
Phone +1 800 401 3367
Fax +1 626 282 8111
hfsales@sefar.us

Sefar Singapore Pte. Ltd.

371 Beach Road
KeyPoint, #21-01/02/03
Singapore 199597
Phone +65 6 299 90 92
Fax +65 6 299 63 59
info.sg@sefar.com

www.sefar.com