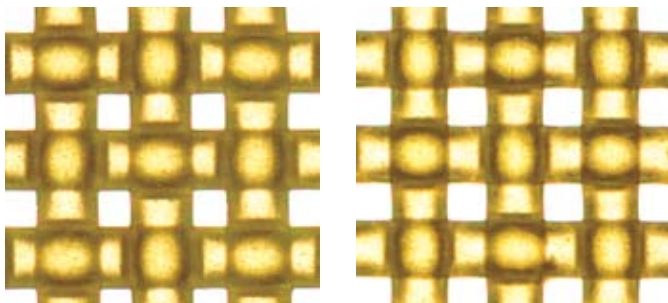


SEFAR® LFM

SEFAR® LFM is a revolutionary mesh that is designed to overcome the challenges faced by customers printing precision graphics with large format screens—however, SEFAR® LFM should be used by any printer looking for an improvement in image quality. SEFAR® LFM is woven with a new generation of polyester monofilament thread that has improved strength. For this reason, smaller thread diameter fabrics can be used on larger frames—providing less thread interference, improved ink flow and dot quality, and less moiré due to dot piling. SEFAR® LFM represents a new generation in fabrics for large format and precision graphics.



Standard 380-34 PW high modulus mesh

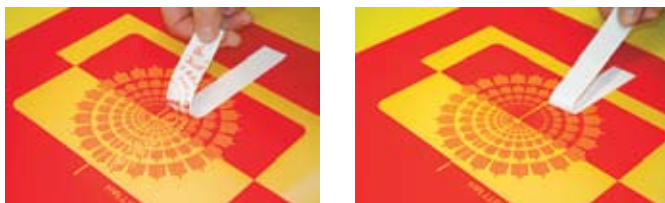
SEFAR® LFM 380-32 PW

Finer threads and larger, more precise mesh openings.

Mesh for large format printing has traditionally been woven from threads with a diameter of 34 microns. With a reduced thread diameter—just 32 microns—SEFAR® LFM has remarkably larger mesh openings that create increased mesh open area for better ink flow.

Similar to all Sefar fabrics, SEFAR® LFM was developed to provide the screen printer with minimal elongation and loss of tension. With its ability to hold tension longer than conventional mesh, the screen printer receives several benefits from SEFAR® LFM: less thread loss (making it possible to print higher resolution graphics), more stable registration processes from screen to screen, less ink hazing or ghosting, and a longer overall life for each screen in production.

SEFAR® LFM also features a special surface treatment. This means better adhesion of the stencil material (so highlight/shadow dots and fine lines stay firmly attached—see photos below), and longer stencil life.



The adhesion test proves it: stencil materials adhere very well; highlight/shadow dots and fine lines stay firmly attached.

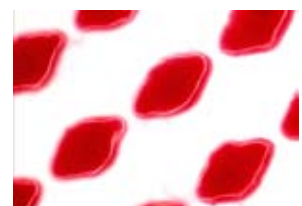
During the printing process, the thinner SEFAR® LFM mesh produces a flatter ink film—which subsequently reduces moiré and ink stacking/skipping issues that result from thick UV ink films.

In addition, a modified weaving process makes SEFAR® LFM mesh openings more precise as well. The result: more uniform ink deposit, increased tonal range, and sharper-edged fine lines and dots (see below).

Film with screen dots
(Tone value 30%,
100x magnification)



Screen dots printed with standard high-modulus mesh



Screen dots printed with SEFAR® LFM 380-32

SEFAR® LFM At-a-Glance

- ◆ Same strength as a standard 34 micron yarn
- ◆ Less tension loss—improved registration accuracy
- ◆ Increased stencil adhesion from surface treatment
- ◆ Improved ink flow from larger mesh openings
- ◆ More uniform and flatter ink deposit: less dot piling and increased tonal range
- ◆ Increases process reliability and stencil life while reducing costs
- ◆ Lower mesh Rz providing improved edge sharpness

SEFAR® LFM