

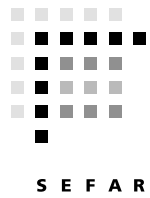


SEFAR® PET 1500

Technical Data 01.06  
技术参数  
テクニカル データ  
기술적인 자료  
ข้อมูลทางด้านเทคนิค

Range to be set up. Current data available on our web site:  
产品系列会不断增加，最新的数据请访问我们的网站：  
準備中仕様，最新データはホームページをご覧ください：  
아이템 미정. 세파 웹사이트에서 재고 상황을 확인할 수 있습니다：  
สินค้าในสายผลิตทั้งหมดจะมีการเพิ่มเติมภายหลังค้นหาข้อมูลปัจจุบันได้จากเว็บไซต์：

[www.sefar.com](http://www.sefar.com)



High-modulus fabric, specially surface-treated for good adhesion | 高张力网纱，表面经特殊处理，使网材附着力更佳  
 高密着強度のための特殊表面処理を施した、ハイモデュラス ファブリック | 특별하게 좋은 접착을 위해 표면 대우되는 높 계수 직물  
 ผ้าตมตึงสูง สภาพผิวผ้าได้รับการปรับ เป็นพิเศษ ให้เกิดกรยึดติดที่ดี

| Range of mesh                  |            |    | Mesh number               |     |     | Weave                          | Tolerance of mesh-count        | Mesh-opening           | Thread diameter nominal | Open area                    | Mesh thickness   | Tol. of mesh thickness          | Theoretical ink volume | Weight of mesh     | available widths |        |        |        |        |        |        |        |         |         |         |         |  |  |  |  |
|--------------------------------|------------|----|---------------------------|-----|-----|--------------------------------|--------------------------------|------------------------|-------------------------|------------------------------|------------------|---------------------------------|------------------------|--------------------|------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--|--|--|--|
| 網種別<br>網の糸<br>目数<br>平匹<br>平米換算 |            |    | メッシュ<br>タイプ<br>目数<br>単位換算 |     |     | 織法<br>平織<br>斜織<br>タテ<br>縦<br>横 | 公差<br>許容差<br>±%<br>公差値<br>単位換算 | 開口<br>寸法<br>mm<br>単位換算 | 径<br>mm<br>単位換算         | 開孔率<br>%<br>平方<br>mm<br>単位換算 | 厚さ<br>mm<br>単位換算 | 公差<br>許容差<br>±mm<br>公差値<br>単位換算 | 体積<br>cm³/m²<br>単位換算   | 重量<br>g/m²<br>単位換算 | 幅<br>mm<br>単位換算  |        |        |        |        |        |        |        |         |         |         |         |  |  |  |  |
| cm / inch                      |            |    |                           |     |     |                                | ± n / cm                       | µm                     | µm                      | %                            | µm               | ± µm                            | cm³ / m²               | g / m²             | cm inch          | 115 45 | 136 53 | 158 62 | 165 65 | 186 73 | 212 83 | 234 92 | 260 102 | 316 124 | 365 143 | 400 157 |  |  |  |  |
| PET 1500                       | 32/83-70Y  | PW | 1:1                       | 1.0 | 240 | 70                             | 58.7                           | 117                    | 6                       | 68.7                         | 37               |                                 |                        |                    |                  |        |        | ●      |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 32/83-100Y | PW | 1:1                       | 1.0 | 209 | 100                            | 44.5                           | 162                    | 8                       | 72.1                         | 75               |                                 |                        |                    | ○                |        | ●      |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 36/92-100Y | PW | 1:1                       | 1.0 | 174 | 100                            | 39.1                           | 160                    | 8                       | 62.6                         | 84               |                                 |                        |                    |                  | ○      |        |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 43/110-80W | PW | 1:1                       | 1.0 | 149 | 80                             | 40.8                           | 130                    | 7                       | 53.0                         | 64               |                                 |                        |                    | ○                |        |        |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 43/110-80Y | PW | 1:1                       | 1.0 | 149 | 80                             | 40.8                           | 130                    | 7                       | 53.0                         | 64               |                                 |                        |                    | ●                | ●      | ●      |        |        | ○      |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 48/123-55Y | PW | 1:1                       | 1.0 | 151 | 55                             | 52.8                           | 90                     | 5                       | 47.5                         | 34               |                                 |                        |                    | ●                | ○      |        |        |        | ○      |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 48/123-70Y | PW | 1:1                       | 1.0 | 133 | 70                             | 41.0                           | 110                    | 6                       | 45.1                         | 55               |                                 |                        |                    | ●                | ○      | ●      |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 48/123-80Y | PW | 1:1                       | 1.0 | 122 | 80                             | 34.5                           | 130                    | 7                       | 44.8                         | 72               |                                 |                        |                    |                  |        | ○      |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 54/137-64W | PW | 1:1                       | 1.5 | 115 | 64                             | 38.7                           | 103                    | 5                       | 39.8                         | 51               |                                 |                        |                    | ○                |        | ○      |        |        | ○      |        | ○      |         |         |         |         |  |  |  |  |
| PET 1500                       | 54/137-64Y | PW | 1:1                       | 1.5 | 115 | 64                             | 38.7                           | 103                    | 5                       | 39.8                         | 51               |                                 |                        |                    | ●                | ●      | ●      |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 54/137-70Y | PW | 1:1                       | 1.5 | 109 | 70                             | 34.8                           | 112                    | 6                       | 38.9                         | 62               |                                 |                        |                    |                  |        | ○      |        |        | ○      |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 61/156-64W | PW | 1:1                       | 1.5 | 90  | 64                             | 30.1                           | 101                    | 5                       | 30.4                         | 58               |                                 |                        |                    |                  | ○      | ○      |        |        | ○      |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 61/156-64Y | PW | 1:1                       | 1.5 | 90  | 64                             | 30.1                           | 101                    | 5                       | 30.4                         | 58               |                                 |                        |                    | ○                | ●      | ●      |        | ○      | ●      |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 68/175-55W | PW | 1:1                       | 1.5 | 85  | 55                             | 33.5                           | 85                     | 4                       | 28.4                         | 48               |                                 |                        |                    |                  |        | ○      |        |        | ○      | ○      |        | ○       |         | ○       |         |  |  |  |  |
| PET 1500                       | 68/175-55Y | PW | 1:1                       | 1.5 | 85  | 55                             | 33.5                           | 85                     | 4                       | 28.4                         | 48               |                                 |                        |                    | ●                | ●      | ●      | ●      | ○      | ●      | ○      | ●      |         |         |         |         |  |  |  |  |
| PET 1500                       | 73/186-55Y | PW | 1:1                       | 2.0 | 75  | 55                             | 30.0                           | 89                     | 5                       | 26.7                         | 52               |                                 |                        |                    | ●                | ●      | ●      |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 77/195-48W | PW | 1:1                       | 2.0 | 77  | 48                             | 35.0                           | 80                     | 4                       | 28.0                         | 42               |                                 |                        |                    | ○                | ○      |        |        |        |        |        |        |         |         |         |         |  |  |  |  |
| PET 1500                       | 77/195-48Y | PW | 1:1                       | 2.0 | 77  | 48                             | 35.0                           | 80                     | 4                       | 28.0                         | 42               |                                 |                        |                    | ●                | ●      | ●      |        | ●      | ●      |        |        |         |         |         |         |  |  |  |  |

Range of mesh  
网糸の種類  
網種別  
网種別

Mesh number  
网紗目数  
メッシュタイプ  
メッシュタイプ

Weave  
編織方式  
織り方  
織り方

Tolerance of mesh-count  
網目公差  
メッシュ公差  
メッシュ公差

Mesh-opening  
メッシュ開口  
メッシュ開口  
メッシュ開口

Thread diameter nominal  
糸径  
糸径  
糸径

Open area  
開口率  
開口率  
開口率

Mesh thickness  
メッシュ厚さ  
メッシュ厚さ  
メッシュ厚さ

Tol. of mesh thickness  
メッシュ厚さ公差  
メッシュ厚さ公差  
メッシュ厚さ公差

Theoretical ink volume  
理論塗布量  
理論塗布量  
理論塗布量

Weight of mesh  
メッシュ重量  
メッシュ重量  
メッシュ重量

available widths  
展開幅  
展開幅  
展開幅

## SEFAR® PET 1500

High-modulus fabric, specially surface-treated for good adhesion | 高張力网紗，表面经特殊处理，使网材附着力更佳  
高密着強度のための特殊表面処理を施した、ハイモデュラス ファブリック | 특별하게 좋은 접착을 위해 표면 대우되는 높 계수 직물  
ผ้าความตึงสูง สภาพผิวผ้าได้รับการปรับ เป็นพิเศษ ให้เกิดการยึดติดที่ดี

| cm / inch |             | ± n / cm |     | µm  | µm | %  | µm   | ± µm | cm³ / m² | g / m² | cm inch | 115 45 | 136 53 | 158 62 | 165 65 | 186 73 | 212 83 | 234 92 | 260 102 | 316 124 | 365 143 | 400 157 |
|-----------|-------------|----------|-----|-----|----|----|------|------|----------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| PET 1500  | 77/195-55W  | PW       | 1:1 | 2.0 | 67 | 55 | 26.5 | 88   | 4        | 23.3   | 55      |        | ○      | ○      |        |        | ○      |        |         | ○       |         | ○       |
| PET 1500  | 77/195-55Y  | PW       | 1:1 | 2.0 | 67 | 55 | 26.5 | 88   | 4        | 23.3   | 55      | ●      | ●      | ●      |        |        | ●      | ●      | ○       |         |         | ○       |
| PET 1500  | 90/230-40W  | PW       | 1:1 | 2.5 | 68 | 40 | 37.6 | 65   | 3        | 24.4   | 33      |        |        | ○      |        |        |        |        |         |         |         |         |
| PET 1500  | 90/230-40Y  | PW       | 1:1 | 2.5 | 68 | 40 | 37.6 | 65   | 3        | 24.4   | 33      | ○      | ○      | ●      |        |        |        |        |         |         |         |         |
| PET 1500  | 90/230-48W  | PW       | 1:1 | 2.5 | 55 | 48 | 24.6 | 78   | 4        | 19.2   | 49      |        |        | ○      |        |        | ○      | ○      | ○       |         |         |         |
| PET 1500  | 90/230-48Y  | PW       | 1:1 | 2.5 | 55 | 48 | 24.6 | 78   | 4        | 19.2   | 49      | ●      | ●      | ●      | ○      | ●      | ●      | ●      | ●       |         |         |         |
| PET 1500  | 95/240-40Y  | PW       | 1:1 | 2.5 | 62 | 40 | 35.0 | 63   | 3        | 22.0   | 35      |        | ●      | ●      |        |        |        |        |         |         |         |         |
| PET 1500  | 95/240-48Y  | PW       | 1:1 | 2.5 | 50 | 48 | 22.8 | 81   | 4        | 18.5   | 51      | ○      |        |        |        |        |        |        |         |         |         |         |
| PET 1500  | 100/255-40W | PW       | 1:1 | 2.5 | 57 | 40 | 32.5 | 65   | 3        | 21.1   | 37      |        |        | ○      |        |        |        | ○      |         |         |         |         |
| PET 1500  | 100/255-40Y | PW       | 1:1 | 2.5 | 57 | 40 | 32.5 | 65   | 3        | 21.1   | 37      | ●      | ●      | ●      | ●      | ●      | ●      |        |         |         |         |         |
| PET 1500  | 110/280-34Y | PW       | 1:1 | 3.0 | 54 | 34 | 35.2 | 55   | 3        | 19.3   | 31      | ●      | ●      | ●      |        |        | ○      |        |         |         |         |         |
| PET 1500  | 110/280-40Y | PW       | 1:1 | 3.0 | 47 | 40 | 26.6 | 65   | 3        | 17.3   | 40      | ●      | ○      | ●      |        |        | ●      |        |         |         |         |         |
| PET 1500  | 120/305-31Y | PW       | 1:1 | 3.0 | 49 | 31 | 35.0 | 49   | 3        | 17.2   | 26      | ●      | ●      | ●      |        |        |        |        |         |         |         |         |
| PET 1500  | 120/305-34W | PW       | 1:1 | 3.0 | 45 | 34 | 29.6 | 55   | 3        | 16.3   | 34      |        |        | ●      |        |        | ○      | ○      |         | ○       |         |         |
| PET 1500  | 120/305-34Y | PW       | 1:1 | 3.0 | 45 | 34 | 29.6 | 55   | 3        | 16.3   | 34      | ●      | ●      | ●      |        | ●      | ●      | ●      | ○       |         |         |         |
| PET 1500  | 120/305-40W | PW       | 1:1 | 3.0 | 37 | 40 | 20.1 | 65   | 3        | 13.0   | 44      |        | ○      | ○      |        |        | ○      |        |         |         |         |         |
| PET 1500  | 120/305-40Y | PW       | 1:1 | 3.0 | 37 | 40 | 20.1 | 65   | 3        | 13.0   | 44      | ●      | ●      | ●      |        |        | ●      | ●      |         |         |         |         |
| PET 1500  | 130/330-34Y | PW       | 1:1 | 3.5 | 40 | 34 | 26.9 | 55   | 4        | 14.3   | 37      | ●      | ●      | ●      |        |        | ●      |        |         |         |         |         |
| PET 1500  | 140/355-31Y | PW       | 1:1 | 3.5 | 36 | 31 | 26.0 | 48   | 2        | 12.5   | 30      | ●      | ●      | ●      |        |        | ●      |        |         |         |         |         |

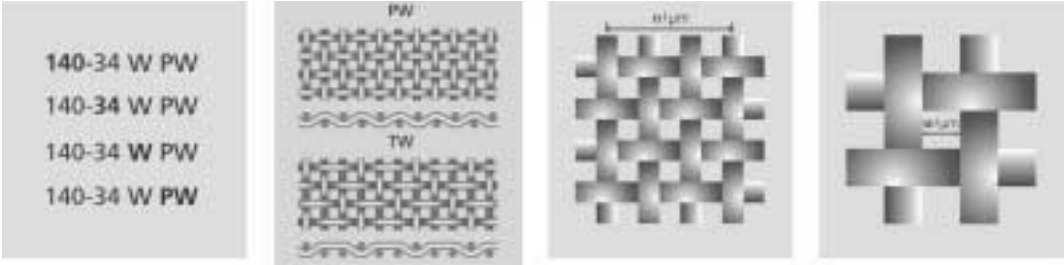
=398 cm

High-modulus fabric, specially surface-treated for good adhesion | 高张力网纱，表面经特殊处理，使网材附着力更佳

ผ้าความตึงสูง สภาพผิวผ้าได้รับการปรับ เป็นพิเศษ ให้เกิดการยึดติดที่ดี

[illegible]

| Range of mesh |          | Mesh number |                               | Weave | Tolerance of mesh-count | Mesh-opening | Thread diameter nominal | Open area | Mesh thickness | Tol. of mesh thickness | Theoretical ink volume | Weight of mesh | available widths                            |
|---------------|----------|-------------|-------------------------------|-------|-------------------------|--------------|-------------------------|-----------|----------------|------------------------|------------------------|----------------|---------------------------------------------|
| 网纱系列          | 网纱目数     | 编织方式        | 公差范围                          | 经纬交织  | 公差范围                    | 网眼尺寸         | 线径规格                    | 开口面积      | 网纱厚度           | 公差范围                   | 理论油墨量                  | 重量规格           | 规格范围                                        |
| 網紗系列          | 網紗目數     | 編織方式        | 公差範圍                          | 經緯交織  | 公差範圍                    | 網眼尺寸         | 線徑規格                    | 開口面積      | 網紗厚度           | 公差範圍                   | 理論油墨量                  | 重量規格           | 規格範圍                                        |
| ประเภทผ้า     | เมอริผ้า | ลักษณะการทอ | ค่าความคลาดเคลื่อนของเบอร์ผ้า |       |                         |              |                         |           |                |                        |                        |                |                                             |
| cm / inch     |          |             | ± n / cm                      |       |                         | µm           | µm                      | %         | µm             | ± µm                   | cm³ / m²               | g / m²         | cm                                          |
|               |          |             |                               |       |                         |              |                         |           |                |                        |                        |                | 115 136 158 165 186 212 234 260 316 365 400 |
|               |          |             |                               |       |                         |              |                         |           |                |                        |                        |                | 45 53 62 65 73 83 92 102 124 143 157        |



English

| Definitions                                    | Fabric number                                                                                                                                                                                                           | Weave                                                                              | Mesh-count $n$ [n/cm]                                                                                                                                             | Mesh-opening $w$ [ $\mu\text{m}$ ]                                                                                                            |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| The short keys correspond with DIN Norm 16 611 | The fabric number is composed of:<br>Mesh-count $n$ 140-34 W PW<br>Thread $\varnothing d_{\text{nom}}$ 140-34 W PW<br>Fabric colour 140-34 W PW (white = W; yellow = Y)<br>Type of weave 140-34 W PW (Plain Weave = PW) | The type of weave is either PW (plain weave 1:1) or TW (twill weave 2:1, 2:2 etc.) | The mesh-count $n$ stands for the number of threads per cm. The tolerance is the accepted band-width of the statistically ascertained mean values of mesh-counts. | The mesh-opening $w$ is the distance between two contiguous warp or weft threads.<br>Measuring equipment: Electronic picture scanning system. |

Chinese

| 定義                       | 網紗編號                                                                                                                                          | 編織                                                  | 網紗目數 $n$ [n/cm]                            | 開孔寬度 $w$ [ $\mu\text{m}$ ]             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------|----------------------------------------|
| 符号相当于<br>DIN Norm 16 611 | 网纱编号的构成为：<br>网纱目数 $n$ 140-34 W PW<br>纱线直径 $\varnothing d_{\text{nom}}$ 140-34 W PW<br>网纱颜色 140-34 W PW (白=W；黄色=Y)<br>编织方法 140-34 W PW (平织=PW) | 编织方法・分为：<br>PW = (平织 1:1) 或<br>TW = (斜织 2:1, 2:2 等) | 网纱目数 $n$ 相当于有多少纱线在一厘米上。<br>公差率定于网纱目数的平均数值。 | 开孔宽度 $w$ 是经纬的距离。<br>量度仪器：<br>电子图像扫描系统。 |

Japanese

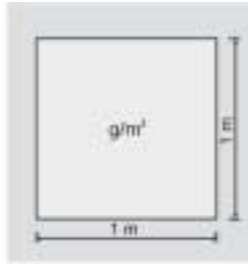
| 定義                       | メッシュタイプ                                                                                                                                               | 織り方                                             | メッシュカウント $n$ [n/cm]                                              | オープニング $w$ [ $\mu\text{m}$ ]                        |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|
| DIN Norm 16 611<br>対応一覧表 | メッシュタイプは以下の項目を含みます。<br>メッシュカウント $n$ 140-34 W PW<br>線径 $\varnothing d_{\text{nom}}$ 140-34 W PW<br>色 140-34 W PW (白=W；黄色=Y)<br>織り方 140-34 W PW (平織=PW) | 織のタイプ：<br>PW = (平織 1:1)<br>TW = (斜織 2:1, 2:2 他) | メッシュカウント $n$ は 1cm あたりの織線数を表します。公差は統計的に確認されたメッシュカウントの平均値の許容範囲です。 | オープニング $w$ は隣接する縦糸もしくは横糸間の距離を表します。測定方法：電子写真スキャンシステム |

Korean

| 정의              | 망사종류                                                                                                                                                  | 직조방식                                                    | 망사 목수 $n$ [n/cm]                                                 | 망사 오픈닝 $w$ [ $\mu\text{m}$ ]                                            |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------|
| DIN Norm 16 611 | 망사 종류의 구성은:<br>망사 목수 $n$ 140-34 W PW<br>선경 $\varnothing d_{\text{nom}}$ 140-34 W PW<br>섬유 색상 140-34 W PW (흰색=W; 황색=Y)<br>직조방식의 종류 140-34 W PW (평직=PW) | 실의 직조종류는 평직이거나<br>느직<br>PW (평직 1:1)<br>TW (느직 2:1, 2:2) | 망사 목수 $n$ 은 cm 마다의 실의 수를 말한다. 허용오차는 통계적으로 확인된 망사 목수 평균치의 허용범위이다. | 망사 오픈닝의 $w$ 는 두 횡선간 혹은 두 종선간의 거리를 말한다. 이는 전자 사진 스캐닝 시스템을 이용해서 측정할 수 있다. |

Thai

| คำจำกัดความ<br>รหัสตาม<br>DIN Norm 16 611 | เบอร์ผ้า<br>เบอร์ผ้าประกอบด้วย:<br>จำนวนเส้นด้ายต่อ<br>เซนติเมตร 140-34 W PW<br>ขนาดเส้นผ่าศูนย์กลาง<br>ของด้ายเส้นด้าย 140-34 W PW<br>สีของผ้า 140-34 W PW (สีขาว=W; สีเหลือง=Y)<br>ลักษณะการทอ 140-34 W PW (การทอแบบ=PW) | ลักษณะการทอ<br>ลักษณะการทอสามารถที่<br>จะเป็น<br>PW (การทอแบบ 1:1)<br>TW (การทอแบบ 2:1, 2:2) | จำนวนเส้นด้ายต่อเซนติเมตร<br>$n$ [n/cm]<br>เบอร์ผ้าแต่ละเบอร์ให้ขึ้นถึง<br>จำนวนของเส้นด้ายต่อเซนติเมตร<br>ค่าความ คลาดเคลื่อน<br>ขึ้นถึงถึงค่าความแตกต่างจาก<br>ค่ากลางของเบอร์ผ้าที่ยอมรับได้ | รูเปิดของผ้า $w$ [ $\mu\text{m}$ ]<br>รูเปิดของผ้าคือระยะห่างระหว่าง<br>เส้นด้ายแบบเส้นด้ายเส้นหนึ่งหรือเส้น<br>ด้ายเส้นสองเส้น<br>หรือมีที่ใช้ในการวัดคือ ระบบ<br>สแกนภาพแบบอิเล็กทรอนิกส์ |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Thread diameter nominal  
 $d_{nom}$  [µm]  
The diameter  $d_{nom}$  is measured  
on the thread before weaving.

Percentage of open area  
 $\alpha_o$  [%]  
The percentage of open area  
 $\alpha_o$  is the cumulation of all the  
mesh-openings, expressed in %  
of the total screen area. It is  
calculated from the mean value  
of mesh-openings and the actual  
thickness of the threads.  
$$\alpha_o (\%) = \frac{W^2 \cdot 100}{(W+d)^2} \cdot d (\mu m) = \frac{10000}{n} \cdot w$$

Fabric thickness  $D$  [µm]  
The fabric thickness  $D$  is  
measured according to  
DIN Norm 53 855, part 1.  
Measuring equipment: Digital  
with numerical display.  
The tolerance is the accepted  
band-width of the statistically  
ascertained mean values of  
fabric thickness.

Theoretical ink volume  
 $V_{th}$  [cm³/m²]  
The theoretical ink volume  $V_{th}$   
is calculated from the fabric  
thickness  $D$  and the percentage  
of open area  $\alpha_o$ .  
The formula is:  
$$V_{th} (cm^3/m^2) = \frac{\alpha_o \cdot D}{100}$$

Weight of fabric [g/m²]  
The weight of the fabric is  
indicated in g/m².  
Testing method: DIN 53 854

丝线直径  
 $d_{nom}$  [µm]  
丝线直径  $d_{nom}$  量度于编织之前。

网纱开孔比例  $\alpha_o$  [%]  
开孔比率  $\alpha_o$  是将所有开孔位置  
转为 %，并计算平均数据及实际的  
纱线厚度。  
$$\alpha_o (\%) = \frac{W^2 \cdot 100}{(W+d)^2} \cdot d (\mu m) = \frac{10000}{n} \cdot w$$

网纱厚度  $D$  [µm]  
网纱厚度  $D$  是按照 DIN Norm  
53 855, part 1 而量度。  
量度仪器：  
数码显示器  
公差率定于网纱厚度平均数值

理论墨量  $V_{th}$  [cm³/m²]  
 $V_{th}$  [cm³/m²]  
理论墨量  $V_{th}$  是计算网纱  
厚度  $D$  及 % 的开孔位  $\alpha_o$ 。  
计算公式：  
$$V_{th} (cm^3/m^2) = \frac{\alpha_o \cdot D}{100}$$

网纱重量 [g/m²]  
网纱重量单位是 g/m²  
测试方法：DIN 53 854

線径 (織網の直径)  
 $d_{nom}$  [µm]  
線径  $d_{nom}$  は、織る前に  
測定。

開口率  
 $\alpha_o$  [%]  
開口率  $\alpha_o$  はスクリーン断面図中  
にふめるオープニングの合計  
をパーセントで表示、オープニ  
ングの平均値と実際の線径によ  
り計算されます。  
$$\alpha_o (\%) = \frac{W^2 \cdot 100}{(W+d)^2} \cdot d (\mu m) = \frac{10000}{n} \cdot w$$

紗厚  $D$  [µm]  
紗の厚み  $D$  は  
DIN Norm 53 855, part 1  
の規定に基づいて測定。  
測定方法：デジタル数値表示。  
公差は統計的に  
確認された紗厚の平均値  
の許容範囲です。

理論インキ容積  
 $V_{th}$  [cm³/m²]  
理論上のインキ量  $V_{th}$  は、  
紗の厚み  $D$  と開口率  $\alpha_o$   
で計算されます。  
$$V_{th} (cm^3/m^2) = \frac{\alpha_o \cdot D}{100}$$

紗の重量 [g/m²]  
紗の重量は g/m² で  
表示。  
測定方法：DIN 53 854

선경  
 $d_{nom}$  [µm]  
직조 전에 실의 지름을 잴다.

계구율  
 $\alpha_o$  [%]  
계구율은 전체 스크린 면적에서  
망사 오프닝이 차지하는  
비율의 퍼센트이다. 이는 망사  
오프닝과 실의 두께의  
평균값으로 계산한다.  
$$\alpha_o (\%) = \frac{W^2 \cdot 100}{(W+d)^2} \cdot d (\mu m) = \frac{10000}{n} \cdot w$$

망사 두께  
망사 두께  $D$  는 DIN Norm  
53 855, part 1에 따라 측정된다.  
이는 숫자 디스플레이 디지  
탈로 측정한다. 허용오차는  
통계적으로 확인된 섬유 두께  
평균치의 허용범위이다.

이론적 잉크 부피  
 $V_{th}$  [cm³/m²]  
이론적 잉크 부피는 섬유 두께  
 $D$  와 계구율 계산 한다.  
수식은...  
$$V_{th} (cm^3/m^2) = \frac{\alpha_o \cdot D}{100}$$

망사 무게 [g/m²]  
망사 무게는 g/m² 로 나타  
낸다. 측정 방법은 DIN 53 854  
이다.

ขนาดเส้นผ่าศูนย์กลางของ  
เส้นด้าย  $d_{nom}$  [µm]  
ขนาดของเส้นผ่าศูนย์กลาง  
ของเส้นด้ายจะวัดจากเส้นด้าย  
ก่อนการทอ

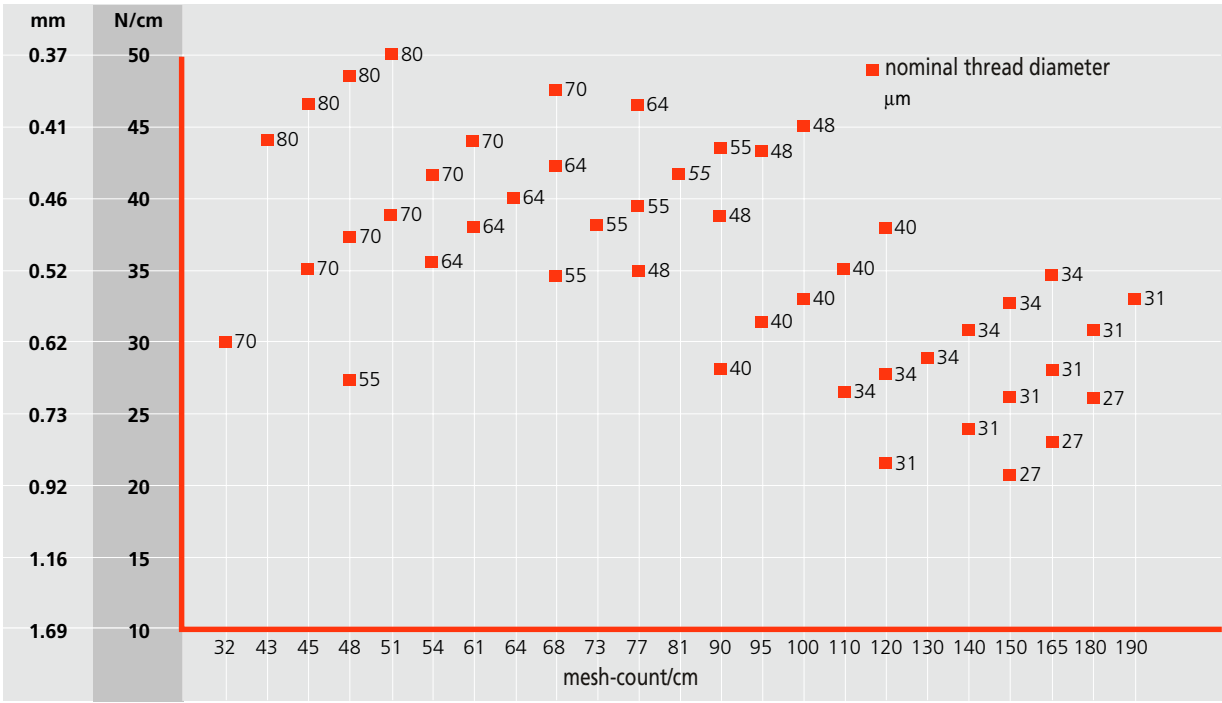
ร้อยละของพื้นที่เปิด  
 $\alpha_o$  [%]  
ร้อยละของพื้นที่เปิดคือการ  
รวมพื้นที่ที่เปิดเป็นร้อยละ  
ของพื้นที่เปิดทั้งหมด  
โดยคำนวณจากพื้นที่ของหน้า  
เปิดเทียบกับความหนาของเส้น  
ของเส้นด้าย  
$$\alpha_o (\%) = \frac{W^2 \cdot 100}{(W+d)^2} \cdot d (\mu m) = \frac{10000}{n} \cdot w$$

ความหนาของผ้า  
ความหนาของผ้าจะวัดตามระบบ  
DIN Norm 53 855, part 1  
เครื่องมือที่ใช้ในการวัด ระบบ  
ดิจิทัลแสดงผลการชั่งน้ำหนัก  
หรือความหนาของเส้นที่ใช้เห็น  
ถึงความแตกต่างจากค่ากลาง  
ของความหนาของผ้าที่ยอมรับได้

ปริมาตรหมึกพิมพ์ที่ใส่ต่อพื้นที่  
 $V_{th}$  [cm³/m²]  
ปริมาตรหมึกพิมพ์ที่ใส่ต่อพื้นที่  
จะคำนวณจากความหนาของผ้า  
กับร้อยละของพื้นที่เปิดของผ้า  
สูตร การคำนวณคือ...  
$$V_{th} (cm^3/m^2) = \frac{\alpha_o \cdot D}{100}$$

น้ำหนักของผ้า [g/m²]  
น้ำหนักของผ้าจะแสดงในหน่วย  
ของ g/m²  
ระบบการทดสอบคือ DIN 53 854

# Possible tension values for SEFAR® PET high-modulus mesh



The tensions listed in the table correspond to measurements made using a SEFAR® Tensocheck 100. The stated values may be read off in *N/cm* (Western standard) or in *mm* (Far Eastern standard). They should be understood as values that are attainable using well-maintained, commercially available stretching equipment.

## Pre-requisites

- A pneumatic fabric tensioning system that transfers the pressure to the shanks of the frame
- Tensioning clamps SEFAR® 2, SEFAR® 3A or SEFAR® 5, or otherwise a system that guarantees even and balanced tension

- A mesh clamping system that does not allow the mesh to slip, even under high tensions
- Stable frames

## Frame dimensions considered

The tension figures indicated are valid for frames of a shank length up to approx. 1 metre. Frames of larger format will show lower tension figures:

- minus 15–20% if the shanks are up to about 2 metres long
- minus 20–25% if the shanks are up to about 3 metres long

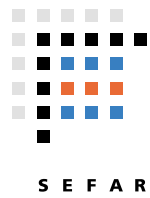
## Loss of tension

We refer to tensions measured after stretching, but before gluing to the frame.

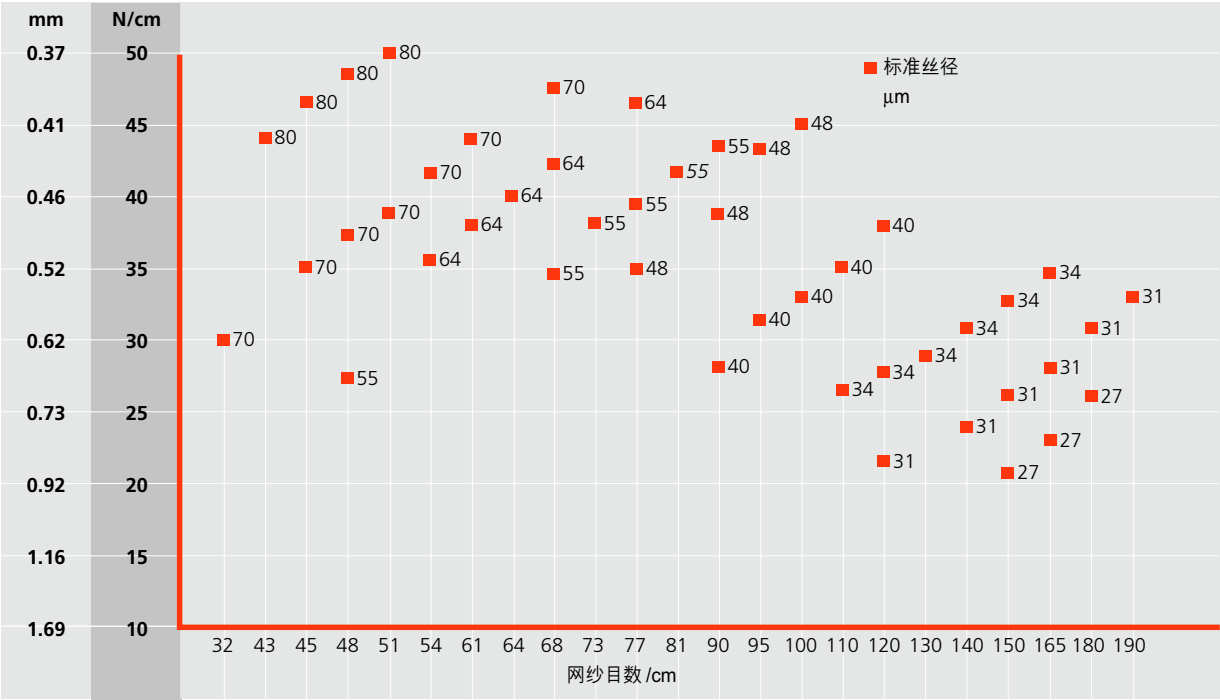
If the tensioning process lasts one minute until the maximum desirable tension is reached, and if a waiting time of about 5–10 minutes is granted before gluing the mesh to the frame, the loss of tension after 24 hours will be minus 10–15% with high-modulus mesh.

The loss of tension depends also on the type of tensioning unit used, the frame profile, the quality of the adhesive, on climatic influences, and on the mesh count.

Tension values



SEFAR® PET 高模数网纱可达的张力值



表中列出的张力是用 SEFAR® Tensocheck 100 网纱张力计测定，并以 *N/cm*（西方标准）或 *mm*（远东标准）表示的数值。此等数值是以操作完善的商业绷网设备取得。

先决条件

- 能把压力转移至网框边缘的绷网系统
- SEFAR® 2、SEFAR® 3A 或 SEFAR® 5 绷网夹头，或是保证张力一致及平均的系统

- 能在高张力下防止网纱滑脱的夹紧系统
- 稳固的网框

网框尺寸考虑

- 表中的张力值适用于边缘长度约 1m 或以下的网框。尺寸较大的网框会显示较低的张力值：
- 边缘长达 2m 的网框，张力值会减少 15-20%
  - 边缘长达 3m 的网框，张力值会减少 20-25%

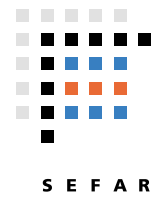
张力损失

张力值是在绷网后、粘网前测定。

假如绷网过程于 1 分钟达至所需的最大张力，并于粘网前予以 5-10 分钟的等候时间，高模数网纱在 24 小时以后的张力损失为 10-15%。

张力损失的程度，视乎绷网装置的类型、网框的外形、粘网胶的质素、气候、及网纱目数。

Tension values



SEFAR® Tensochek 100 — Digital tension measuring gauge

SEFAR® Tensochek 100 is new mesh tension measuring gauge that operates electronically, rather than mechanically. This digital measurement gauge offers further interesting and useful features, coupled with an excellent price-performance ratio.

Digital display

The digits of the measured values are 10mm in size and appear on a clear, digital display that is highly legible even at a distance.

Measurement precision

Measurements above 30N/cm are displayed with 0.5 N/cm resolution. A finer resolution (0.2 N/cm) is used below this figure. SEFAR® Tensochek 100 enhances the reproducibility of the screen tension.



Wide display range

SEFAR® Tensochek 100 covers the range of 4 to 60 N/cm, making it an universal measurement tool.

Selectable measurment units

Select between N/cm and millimeters at the touch of a button. The unit is usable anywhere in the world.

Automatic shut-off

After three minutes without measurement activity, the device shuts itself off to conserve battery life.

Zero adjustment

The instrument ships with a zero-setting plate for quick confirmation, or adjustment simply by pressing a button. This makes for reproducible results, plus you can perform the zero adjustment easily yourself at any time.

Operation

SEFAR® Tensochek 100 can be used and operated without any special expertise.

Optional calibration plate

Regular checks on the measurment accuracy of SEFAR® Tensochek 100 are one guarantee for maximum process reliability. With the calibration plate, you can monitor the instrument's consistency yourself, on site, as often as you wish.

You benefit because SEFAR® Tensochek 100 only needs sending in to the Sefar technical centre for readjustment if it is found to be out of tolerance. That saves you time and expense, while ensuring virtually permanent availability of the measuring instrument for production.

ISO 9001 quality systems require periodic certification of the calibration plate by an accredited measurment institution. These exist in everycountry; your Sefar distributor or a Sefar technical centre will be pleased to advise.



Calibration plate

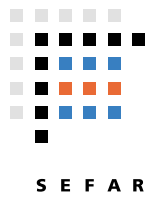
Specification

|               |                                                                        |
|---------------|------------------------------------------------------------------------|
| Width         | 80 mm                                                                  |
| Length        | 95 mm                                                                  |
| Height        | 115 mm                                                                 |
| Weight        | 1.01 kg (including battery)                                            |
| Battery       | 9V (6LR61)                                                             |
| Display range | 4 - 60 N/cm                                                            |
| Resolution    | 0.2 N/cm (for the range <30 N/cm)<br>0.5 N/cm (for the range >30 N/cm) |

Tolerance

|                   |                            |
|-------------------|----------------------------|
| Measurement range | 10 - 19.8 N/cm = ±0.4 N/cm |
| Measurement range | 20 - 29.8 N/cm = ±0.6 N/cm |
| Measurement range | 30 - 39.5 N/cm = ±1.0 N/cm |
| Measurement range | 40 - 50.0 N/cm = ±1.5 N/cm |

SEFAR® Tensochek 100



SEFAR® Tensocheck 100 数位式(网纱)张力计

全新 SEFAR® Tensocheck 100 是突破传统机械式操作的电子数位式网纱张力计，备有多种新颖而实用的功能，及符合经济效益。

数位式显示

测量值以 10 mm 数位字体清晰显示，即使远距离亦可一目了然。

测量准确

以 0.5 N/cm 解像度显示高于 30 N/cm 的量测范围；低于此范围者则以更精密的 0.2 N/cm 解像度显示，确保测量绝对准确。



应用广泛

SEFAR® Tensocheck 100 测量范围由 4 至 60 N/cm，适用于任何系统或配套。

数位式显示可变换测量值

备有 N/cm 及 mm 两种读数可随时转换及交替使用，适用于全球各地。

自动关闭

于终止测量 3 分钟后自动关闭，节省电磁耗量。

零点校正

备有零点校正指示，一按即可快速确认、重复读值，或返回原位。

易于操作

操作简易，任何人仕适用。

校准板可供选用

SEFAR® Tensocheck 100 备有校准板让你随时自行检查测量准确度，确保绝对可靠和准确的测量水平。

SEFAR 技术中心除了可提供 SEFAR® Tensocheck 100 省时及经济的调校服务，亦同时保证仪器产量充足和货源不绝。

根据 ISO9001 优质保证制度规定，校准板必须定期获取品质认证，认证规范适用于全球各地，详情可向本地之 SEFAR 经销商或 SEFAR 技术中心查询。

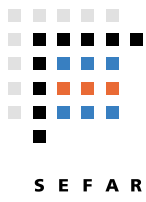


调校准板

规格

|      |                                                            |
|------|------------------------------------------------------------|
| 阔度   | 80 mm                                                      |
| 长度   | 95 mm                                                      |
| 高度   | 115 mm                                                     |
| 重量   | 1.01 公斤 (包括电磁)                                             |
| 电磁   | 9V (6LR61)                                                 |
| 显示范围 | 4 - 60 N/cm                                                |
| 解像度  | 0.2 N/cm (低于 30 N/cm 的测量范围)<br>0.5 N/cm (高于 30 N/cm 的测量范围) |
| 公差   |                                                            |
| 测量范围 | 10 - 19.8 N/cm = ± 0.4 N/cm                                |
| 测量范围 | 20 - 29.8 N/cm = ± 0.6 N/cm                                |
| 测量范围 | 30 - 39.5 N/cm = ± 1.0 N/cm                                |
| 测量范围 | 40 - 50.0 N/cm = ± 1.5 N/cm                                |

SEFAR® Tensocheck 100



SEFAR

**Be Safe. Be Sefar.**

[www.sefar.com](http://www.sefar.com)

Headquarter:  
Sefar AG  
Printing Division  
P.O.Box  
CH-9425 Thal SG  
Switzerland  
Phone +41 71 886 3232  
Fax +41 71 886 3591  
E-mail [printing@sefar.com](mailto:printing@sefar.com)

Sefar Asia Pacific Co., Ltd.  
Printing Division  
SCB Park Plaza West, Tower II, 3F  
18 Ratchadaphisek Road, Chatuchak  
Bangkok 10900, Thailand  
Phone +662 937 5624  
Fax +662 937 5647  
E-mail [printing@sefar.com](mailto:printing@sefar.com)

Singapore Liaison Office  
371 Beach Road # 21-01/02/03  
Key Point  
Singapore 199597  
Phone +65 6299 9092  
Fax +65 6299 6359  
E-mail [printing@sefar.com](mailto:printing@sefar.com)

Hong Kong Liaison Office  
Room 2301-3, Tower One  
Ever Gain Plaza  
88, Container Port Road  
Kwai Chung, N.T. Hong Kong  
Phone +852 2650 0581  
Fax +852 2638 0580  
E-mail [printing@sefar.com](mailto:printing@sefar.com)



1127 ECJKT 3000 / 02.2006

