

Asma-Germe is an International Tensile
Architecture Specialist Company and
provides solution with all available materials.

DESIGN
ENGINEERING
CONSALTING
FABRICATION
INSTALLATION
MAINTENANCE
for
ARCHITECTURAL TENSILE STRUCTURES

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ISTANBUL/TURKEY

TEXTILE MATERIALS

ETFE
foil

PTFE
coated polyester fabric

PVC
coated polyester fabric



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TEXTILE MATERIALS

WOVEN FABRICS

COATING

PVC coated polyester fabric

PTFE coated glass fibre fabric

FILM/FOIL

ETFE foil

Sensitivity to soiling: Vulnerable to soiling, better with top coat, e.g. fluoride lacquer

Reaction to fire (Euro class to DIN 4102): B1

Standard colours: White as standard, other colours available

Weight per unit area to DIN 55 352 [g/m²]: Type I: 750/ Type II: 900/ Type III: 1100/ Type IV: 1300/ Type V: 1450

Tensile strength (warp/weft) to DIN 53 354 [N/50 mm]: Type I: 3000 / 3000/ Type II: 4200 / 4000/ Type III: 5800 / 5400/ Type IV: 7500 / 6500/ Type V: 10 000 / 9000

Service life: 10 - 20 years

Sensitivity to soiling: Very good soiling behaviour, selfcleaning

Reaction to fire (Euro class to DIN 4102): A 2 (types I and II) / B 1 (types III and IV)

Standard colours: White as standard, limited selection of colours

Weight per unit area to DIN 55 352 [g/m²]: Type I: 800 / Type II: 900 / Type III: 1200 / Type IV: 1500

Tensile strength (warp/weft) to DIN 53 354 [N/50 mm]: Type I: 3500 / 3500 / Type II: 5000 / 4500 / Type III: 7000 / 6000 / Type IV: 8000 / 7000

Service life: > 20 years

Long-term stability: Very good UV resistance

Reaction to fire : Not readily flammable

Variations available: Transparent, dyed white, various colours, printing possible

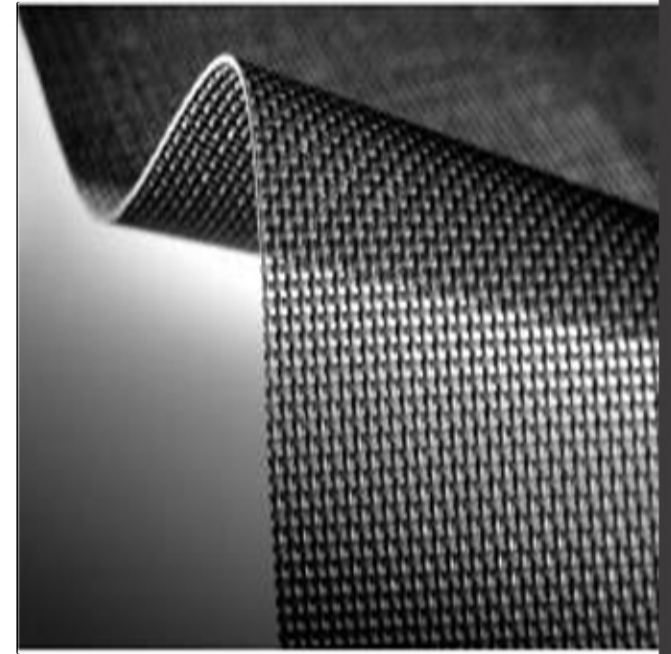
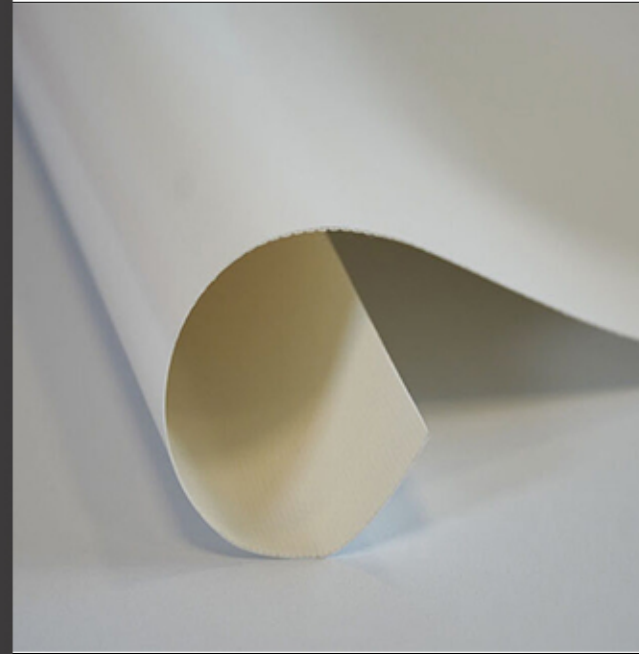
Standard thicknesses [µm]: 12 - 300

Tensile strength [N/mm²] (DIN EN ISO 527-1): 40 or measured according to DIN 53354 approx. 400 N/50 mm

Light transmittance [%]: > 90



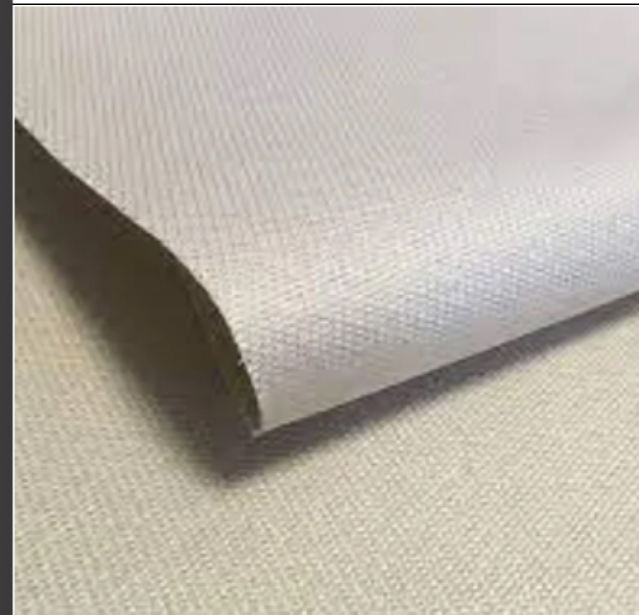
PVC



PVC MESH



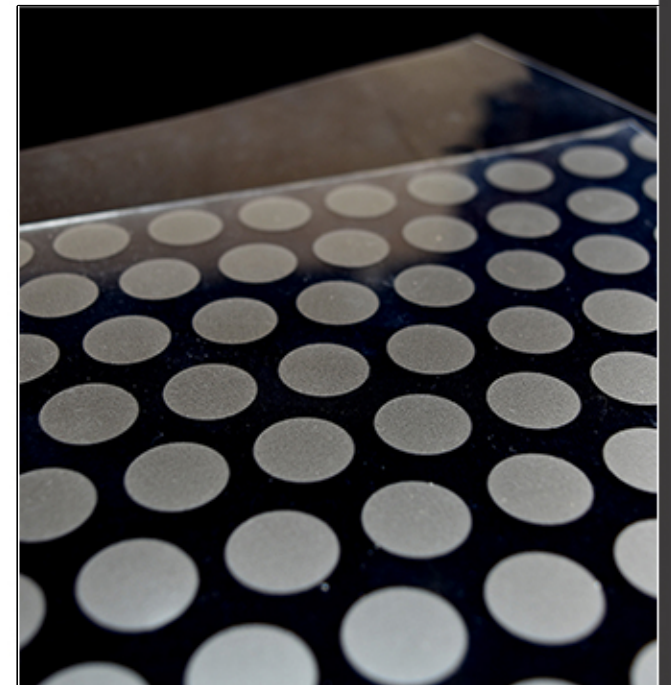
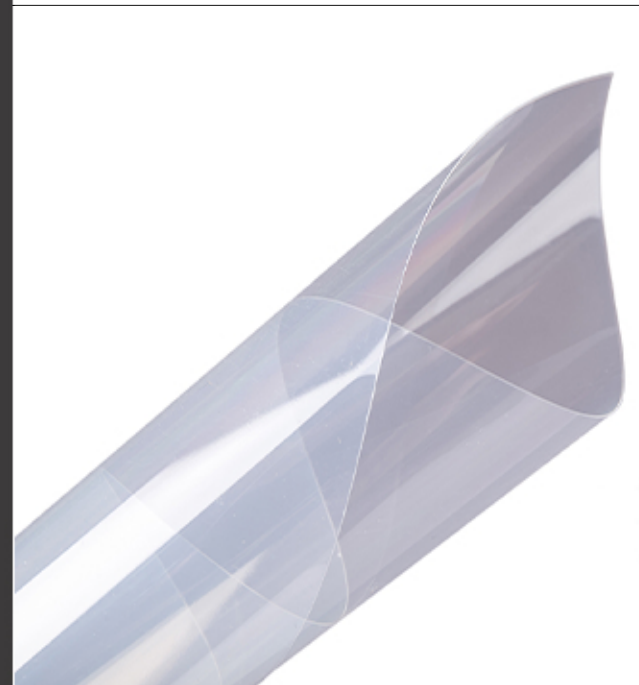
PTFE



PTFE MESH



ETFE



* Cremers, K., Lienhard, G., 2011, Construction Manual for Polymers + Mebranes, GmbH & Co. KG, Munich.