

# ROTEX Signage Textiles

Airmesh 300  
Air Permeable Mesh Banners  
MESH300

AIRMESH 300 is a high tensile, open structure, air permeable knitted polyester yarn with a white digitally printable PVC coating on both sides. It is ideal for printed high resolution single or double sided images displayed indoors and in high strength outdoor applications whereby wind, light transfer & visibility are required. The PVC film is bonded with the fabric using a chemical process which maintains optimum fabric strength & prevents premature de-lamination whilst maintaining a formulation which is easy to print, finish and install.



Quality

Economy

▶ Performance

Premium

## Product information

Composition:	PVC film lam-coated to high tensile knitted polyester yarn
Main Applications:	Hoardings, fencing, general banners requiring a small hole allowing extra ink coverage.
Features:	Frontlit, excellent strength & layflat, smooth surface, uniform hole size, printable 2 sides.
Benefits:	Reliable print & finishing capabilities with optimum durability & strength
Surface Treatment:	Ink receptive lacquer
Formulation:	Anti-static, UV stabilized, Fire Retardant
Storage Conditions:	Store at 22°C 50 ~ 55% RH
Shelf Life:	12 months from date of manufacture
Remarks:	Hole size approximately 2mm x 3mm

## Certifications

Quality & Testing

- SGS Air Permeability, April 2011

Application

- High rise scaffolding & fence signage

Manufacturing

- ISO-9001

## Weight

- 300 grams per m<sup>2</sup> ± 5%

## Stock Availability

Sheet Sizes:	See sheet cutting
Roll Widths (mm):	1370, 1600, 1800, 2040, 2500, 3200, 5000.
Roll Lengths (mtrs):	50
Log Cutting:	Up to 5m rolls
Standard Core:	76mm ID
Sheet Cutting:	Up to 3200mm x 1830mm

## Durability

6 years

3 years

## Printing

Method:	Most solvent, UV curable digital & screen print systems.
Printable Sides:	Bothsides
Ink Suitability:	Solvent, UV & Screen

## Eco Response

Certifications

- VCA Product Stewardship

Heavy Metal Free

- Yes

Recyclable

- Yes

Safety Compliance

- Reach, EN-71, RoHs

## Basic Physical Data

Thickness:	0.38mm
Weight:	300gsm
Denier & Density:	Denier 1000x1000 - Density (cm) 12 x 12
Gloss Level:	Matte

## Thermal Data

Heat Resistance:	70 °C
Cold Resistance:	-30 °C

## Physical Characteristics

<b>Flame Retardant</b>	NFPA-701 DIN4102-B1
<b>Environmental</b>	EN-71, RoHS
<b>Welding</b>	7.5 Kg/5cm
<b>Adhesion</b>	
<b>Air Permeability</b>	Average 2052 mm/s (ISO9237-1995)
<b>Coating Adhesion</b>	142.1 N/50mm
<b>Thickness</b>	0.38mm (15 mil) ± 5%
<b>Weight</b>	300 grams per m <sup>2</sup> ± 5%
<b>Yarn / Scrim</b>	Denier = 1000x1000 Dtex = 1100x1100
<b>Tensile Strength</b>	210kgs/50mm in MD, 160 kgs/50mm in CD.
<b>Density / Threads</b>	Per Inch = 12x12 Per cm=4.7x4.7
<b>Elongation at Break</b>	MD=30% CD=25
<b>Adhesion Strength</b>	8 kgs/50mm in both MD and CD
<b>Surface Tension</b>	42 Dyne/cm <sup>3</sup>
<b>Surface Finish</b>	Matte
<b>UV Stabilized</b>	Yes

## Finishing

<b>Cutting</b>	✓
<b>Welding</b>	✓
<b>Folding</b>	✓
<b>Gluing</b>	✓
<b>Eyeletting</b>	✓
<b>Stitching</b>	✓
<b>Laminating</b>	X
<b>Bending</b>	✓
<b>Routing</b>	X
<b>Punching</b>	✓
<b>Drilling</b>	✓
<b>Screwing</b>	✓
<b>V-Grooving</b>	X