



special structures for sale or hire - world wide

ENGINEERED STRUCTURAL FABRICS

Fabrics used for engineering application are usually polyester or glass fibre coated with a variety of chemical compounds. The woven base cloth carries most of the tensile forces while the coating protects the cloth against external environmental effects of ultra violet and pollution. An additional coating of clear laquer is also applied for additional protection. These laquers can be acrylic, PVDF (fluorine as in non stick frying pans), or Tedlar.

There are many different combinations of base cloth/coating/lacquer. The correct specification is chosen from experience, and technical and commercial considerations.



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TYPE I STRUCTURAL FABRIC

Support cloth		(DIN 60001)	PES
Ends/picks		(DIN 53853)	9/9
Yarn		(DIN 53830)	1100
Weave		(DIN 61101)	L1/I
Grey cloth-weight		(DIN 53854)	210
Type of coating		PVC	
Total weight		(DIN 53352)	900
Tensile strength warp/weft		(DIN 53354)	3000/3000
Tear resistance warp/weft		(DIN 53363)	310/350
Adhesion		(DIN 53363)	100
Typical Flame retardancy		British	BS5867 TYPE B
		Italian	Class 2
		French	Classment M 2
		German DIN 4102 BI	
		US	NFPA 701 small
and large scale			
Cold crack	-40 degrees Celsius	(DIN 53361)	
Flexing strength	no cracking after at 100,000 flexes (DIN 53359)		
Widths: (cm)	various		

COLOUR

Most prime colours are available as standard. Special colour are subject to minimum ordering quantities.

LACQUER

Various lacquers are available for different applications, such as PVDF, PTFE, Acrylic, Silicon.

Blackout cloths are available to special order.

The above data are averages from production. Fire certificates for most countries available. Product descriptions and suggested and uses are general and subject to trial for the intended end use. Production is subject to change. E&OE



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TYPE 2 STRUCTURAL FABRIC

Support cloth	(DIN 60001)	PES	
Ends/picks		(DIN 53853)	12/12
Yarn		(DIN 53830)	1100
Weave		(DIN 61101)	P 2/2
Grey cloth-weight		(DIN 53854)	275
Type of coating		PVC	
Total weight		(DIN 53352)	1050
Tensile strength warp/weft		(DIN 53354)	4400/3950
Tear resistance warp/weft		(DIN 53363)	520/580
Adhesion		(DIN 53363)	120
Typical Flame retardancy		British	BS5867 TYPE B
		Italian	Class 2
		French	Classment M 2
		German DIN 4102 B1	
		US	NFPA 701 small
and large scale			
Cold crack	-40 degrees Celsius	(DIN 53361)	
Flexing strength	no cracking after at 100,000 flexes (DIN 53359)		
Widths: (cm)	various		

COLOUR

Most prime colours are available as standard. Special colour are subject to minimum ordering quantities.

LACQUER

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TYPE 3 STRUCTURAL FABRIC

Support cloth	(DIN 60001)	PES	
Ends/picks		(DIN 53853)	10,5/10,5
Yarn		(DIN 53830)	1670
Weave		(DIN 61101)	P 2/2
Grey cloth-weight		(DIN 53854)	370
Type of coating		PVC	
Total weight		(DIN 53352)	1050
Tensile strength warp/weft		(DIN 53354)	5750/5100
Tear resistance warp/weft		(DIN 53363)	800/950
Adhesion		(DIN 53363)	120
Strength of standard weld seam		3350	
Typical Flame retardancy		British Italian French German DIN 4102 B1 US	BS5867 TYPE B Class 2 Classment M 2 NFPA 701 small
and large scale			
Cold crack	-40 degrees Celsius	(DIN 53361)	
Flexing strength	no cracking after at 100,000 flexes (DIN 53359)		
Widths: (cm)	various		

COLOUR

Most prime colours are available as standard. Special colour are subject to minimum ordering quantities.

LACQUER

Various lacquers are available for different applications, such as PVDF, PTFE, Acrylic, Silicon.

Blackout cloths are available to special order.

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TYPE 4 STRUCTURAL FABRIC

Support cloth	(DIN 60001)	PES	
Ends/picks		(DIN 53853)	14/14
Yarn		(DIN 53830)	1670
Weave		(DIN 61101)	P 3/3
Grey cloth-weight		(DIN 53854)	490
Type of coating		PVC	
Total weight		(DIN 53352)	1300
Tensile strength warp/weft		(DIN 53354)	7450/6400
Tear resistance warp/weft 1100/1400		(DIN 53363)	
Adhesion		(DIN 53363)	120
Typical Flame retardancy		British Italian French German DIN 4102 B1 US	BS5867 TYPE B Class 2 Classment M 2 NFPA 701 small
and large scale			
Cold crack	-40 degrees Celsius	(DIN 53361)	
Flexing strength	no cracking after at 100,000 flexes (DIN 53359)		
Widths: (cm)	various		

COLOUR

Most prime colours are available as standard. Special colour are subject to minimum ordering quantities.

LACQUER

Various lacquers are available for different applications, such as PVDF, PTFE, Acrylic, Silicon.

Blackout cloths are available to special order.

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TYPE 5 STRUCTURAL FABRIC

Support cloth	(DIN 60001)	PES	
Ends/picks		(DIN 53853)	14/14
Yarn		(DIN 53830)	2200
Weave		(DIN 61101)	P 3/3
Grey cloth-weight		(DIN 53854)	650
Type of coating		PVC	
Total weight		(DIN 53352)	1450
Tensile strength warp/weft 9800/8300		(DIN 53354)	
Tear resistance warp/weft		(DIN 53363)	1600/1800
Adhesion		(DIN 53363)	120
Strength of standard welded seam		4600	
Typical Flame retardency		British Italian French German DIN 4102 BI US	BS5867 TYPE B Class 2 Classment M 2 NFA 701 small
and large scale			
Cold crack	-40 degrees Celsius	(DIN 53361)	
Flexing strength	no cracking after at 100,000 flexes (DIN 53359)		
Widths: (cm)	various		

COLOUR

Most prime colours are available as standard. Special colour are subject to minimum ordering quantities.

LACQUER

Various lacquers are available for different applications, such as PVDF, PTFE, Acrylic, Silicon.

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