



Argosy International Inc.

14 Penn Plaza (225 W. 34 Street), Suite 1508

New York, NY 10122 USA

Tel: (212) 268-0003, Fax: (212) 268-4228

E. Mail: sales@argosychemical.com

www.argosychemical.com

E-glass Fabrics

E-glass fabrics have many unique and outstanding properties which provide design opportunities for the improvement of existing products and the development of new products. Argosy technicians, design engineers and technical representatives welcome the opportunity to combine their experience and knowledge of these unique properties to provide the superior with products required by the industry today.

Advantages:

• Chemical resistance –	They resist most acids with the exception of hydrofluoric acid and hot phosphoric acid.
• Dimensional stability –	The E-glass yarn will not stretch or shrink as a result of changes in atmospheric conditions. The average linear thermal expansion coefficient is 5.4×10^{-6}
• Good thermal properties –	Dissipates heat more rapidly than asbestos or organic fibers.
• High tensile strength–	E-glass yarn is twice as strong as steel wire. The ability to design unidirectional or bidirectional strength into a fabric adds considerable strength to end-use products.
• High thermal endurance –	E-glass fibers can retain approximately 50 % of its strength at 700 °F (371 °C) and as much 25% at 1000 °F (538 °C).
• Low moisture absorption –	E-glass fiber is made from noncellular fiber and, therefore, has extremely low moisture absorption.
• Outstanding electrical insulation-	High dielectric strength and relatively low dielectric constant, plus low water absorption and high temperature resistance, make E-glass fabrics outstanding for electrical insulating purposes.
• Cost advantages –	E-glass fabrics perform well and compare favorably in cost with synthetic and natural fiber fabrics



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E-glass Products

Properties of Caramelized Fabrics

Style		3784 Caramelized	3788 Caramelized	Test Method
Weave		8 HS SATIN	12 HS SATIN	Visual
Yarn Construction	Warp	ECG 37 1/2	ECG 37 1/4	
	Fill	ECG 37 1/2	ECG 37 1/4	
Thread Count	Warp	40-46	39-45	ASTM D3775-2003
	Fill	32-38	32-38	ASTM D3775-2003
Width		38 inches +1/-0	38 inches +1/-0	ASTM D3374-1996
Thickness		0.019-0.023 inches	0.040-0.050 inches	ASTM D1777-2002
Weight		22.0-28.0 oz/yd ²	43.0-46.0 oz/yd ²	ASTM D3776-2002
Minimum Breaking Strength	Warp	900 lbs /inch	1300 lbs /inch	ASTM D5034-2001
	Fill	700 lbs /inch	1200 lbs /inch	
L.O.I%		< 0.9 %	< 0.9 %	ASTM D4963-99
Arsenic Content		<20 ppm	<20 ppm	GB/T 17593-1998
Selvage		Loop or Fringe	Fringe	Visual



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E-glass Products

Properties of E-glass Tapes

Argosy offers a broad range of E-glass Tapes. Our products can be applied to different resin system including epoxy, vinyl ester and polyester.

Normal Specification – I:

- Part No#: AET200-50, Width: 50mm
- Part No#: AET200-35, Width: 35mm

Part No# :	AET-200		
Width	0.60 - 3.94 inch	15-100 mm	
Thickness :	0.007 inch	0.20 mm	
Yarn Counts:	Warp	50.8 yarns/inch	20 yarns/cm
	Weft	38.1 yarns/inch	15 yarns/cm
Yarn Construction:	Warp	EC8-24*3 (TEX)	
	Weft	EC8-24*4 (TEX)	
Tensile Strength :	> 800 N / 20 mm		

Normal Specification – II:

- Part No#: AET100-25, Width: 25mm
- Part No#: AET100-15, Width: 15mm

Part No# :	AET-100		
Width	0.59 - 3.94 inch	15-100 mm	
Thickness :	0.004 inch	0.1 mm	
Yarn Counts:	Warp	68.1	27 yarns/cm
	Weft	38.5	15 yarns/cm
Yarn Construction:	Warp	EC5.5-12*2 (TEX)	
	Weft	EC5.5-12*2 (TEX)	
Tensile Strength :	> 400 N / 20 mm		



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E-glass Products

Properties of Fabric – Light Weight

Style		<u>7581 Fabric</u>	
Weave		8 HS SATIN	
Yarn Construction	Warp	ECG 75 1/0	
	Fill	ECG 75 1/0	
Thread Count	Warp	57±2 yarns/inch	
	Fill	54±2 yarns/inch	
Width		50 inch	1270 +10/-0 mm
Thickness		0.009 inch	0.23 ± 0.02 mm
Weight		8.85oz/yd²	300 ±3 g/m²
Minimum Breaking Strength	Warp		>15.5 kg/cm
	Fill		>11.8 kg/cm
L.O.I%		<0.08%	

The Fabrics can be coated with a sizing treatment which makes them highly compatible with epoxy and phenolic resins (Normal sizing: A-1100 or Z-6040).



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E-glass Products

Properties of Fabrics – Light Weight

Style		7781 Fabric	
Weave		8 HS SATIN	
Sizing		A-1100	
Yarn Construction	Warp	ECG 75 1/0	
	Fill	ECG 75 1/0	
Thread Count	Warp	57±2 yarns/inch	
	Fill	54±2 yarns/inch	
Width		50 inch	1270 +10/-0 mm
Thickness		0.009 inch	0.23 ± 0.02 mm
Weight		8.85oz/yd²	297 ±3 g/m²
Minimum Breaking Strength	Warp		>15.5 kg/cm
	Fill		>11.8 kg/cm
L.O.I%		< 0.18 ±0.06%	

The Fabrics can be coated with a sizing treatment which makes them highly compatible with epoxy and phenolic resins (Normal sizing: A-1100 or Z-6040).



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E-glass Products

Properties of Fabrics – E-Glass Fabric with Al Coating

Part#		AAL-25	
Weave		Plain	
Coating		Aluminum Foil	
Yarn Construction	Warp	ETG 11.6	
	Fill	ETG 11.6	
Thread Count	Warp	20 yarns/in.	
	Fill	14 yarns/in.	
Width		40 & 60 in.	100 & 152 cm
Fabric Thickness		0.03 in.	0.75 mm
Al Coating Thickness		0.001 in.	0.025 mm
Weight		17.8 oz/yd²	610 g/m²
Minimum Breaking Strength	Warp	> 194 lbs/in	>1750 N/5cm
	Fill	> 138 lbs/in	>1250 N/5cm
L.O.I%		< 0.5%	