

**Chongqing Polycomp International Corp.** 

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# Multi-axial Fabrics Unidirectional

## Identification

**Example:** EKU1150(0)/50E(TM)-600 **EKU:** Knitted Uniaxial fabric

**1150(0)/50:** 1150 g in 0° layer + 50g mat per m<sup>2</sup>

**E:** Resin system, "E" means EP

**TM:** CPIC high strength and high modulus

fiber-TM glass

**600:** Width (mm)



## **Product Description**

Multi-axial fiberglass fabrics are made from Rovings. The Rovings placed parallel in each layer in a designed direction could be arranged 2-6 layers, which are stitched together by light polyester threads. The general angles of the placing direction are 0, 90, ±45 degree. Unidirectional knitted fabric means main mass is in a certain direction, for example 0 degree. It is applied for vacuum infusion or winding process and mainly used for the production of wind blades, pipes, and so on. They are available for epoxy (EP), polyester (UP), and vinyl resin (VE) systems.

### **Product Benefits**

- Good mouldability
- · Stable resin speed for vacuum infusion process
- Good combination with resin and no white fiber (dry fiber) after curing

## **Technical Characteristics**

Sizing Type	Area Weight (g/m2)	Width (mm)		Moisture Content (%)
/	ISO 3374	ISO 5025		ISO 3344
		<600	±5	
Silane	±5%	≥600	±10	≤0.20

Sample type	Droporty	Unit	Fiberglass type			Test method	
Sample type	Property	Unit	E-glass	ECT-glass	TM-glass	rest method	
UD laminates made by	Tensile Strength	MPa	800~950	950~1050	1050~1200	ISO 527-5	
infusion of EKU1150(0)E fabric	Tensile Modulus	GPa	39~41	41~43	44~47	Fiber content: 74.3%	

<sup>\*</sup>Test results are based on the 468G rovings which are applicable to the epoxy resin system.

<sup>\*</sup>These data are from the CPIC wind blades lab.



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Due dont se de	Glass	Resin	Total	Weight per layer(g/m2)					
Product code	type	system	Weight (g/m2)	0°	+45°	90°	-45°	Chopped	Stitched Yarn
EKU1150(0)	ECT/TM	EP/UP/PU	1208	1150	/	50	/	/	8
EKU1150(0)/50	ECT/TM	EP/UP/PU	1258	1150	/	50	/	50	8
EKU1200(0)	ECT/TM	EP/UP/PU	1244	1196	/	40	/	/	8
EKU1200(0)/50	ECT/TM	EP/UP/PU	1294	1196	/	40	/	50	8

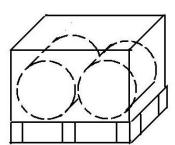
#### Note:

- 1. The arrangement and weight of each layer are designed.
- Total weight: 300-1500g/m<sup>2</sup> 2.
- Width: 120-2540mm

## **Packaging**

Package	Length (m)	Roll Weight (kg/roll)	Core Inside/Outside Diameter(mm)	Number of roller per pallet	Pallet size(mm) L*W*H	
EKU1150(0)/50-600	300	232	76.5/580	2	1140*700*740	

## **Pallets illustration**



Note: Products can be packed according to the customer's request.

## **Storage**

The fabrics should be stored away from heat and moisture, and in their original packaging. The best conditions are: temperatures between 15 and 35 °C; humidity between 35 and 65 %.

If the product is not stored under these specifications, it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation.

The pallets can be stored in 2 levels (1/1).

CPIC recommends that the material be used according to FIFO (first in, first out) method. It is recommended the use of a spacer plate (10mm) between the pallets.





