



## Technical Data Sheet

### Description:

#### Electrical Insulation Glass Fabric Style 7628L + aluminium

FPC "DJOFRA-M" SRL

Sos. Muncesti 801, Chisinau, MD-2029

Republic of Moldova

### Application:

Electrical insulation glass fabric with aluminium is used for the production of aluminium-laminated electrical insulation materials, copper-clad and non-copper laminates, printed circuit boards (PCB), and electrical insulation sheets.

The material is suitable for epoxy-, phenolic- and polyester-based resin systems applied in industrial lamination processes.

### Advantages:

The aluminium-laminated 7628L glass fabric features a uniform plain weave structure, stable thickness, and balanced tensile strength in both warp and weft directions.

The silane surface treatment ensures effective resin impregnation and strong adhesion between the glass fabric and the aluminium layer. Controlled loss on ignition (LOI) contributes to stable electrical, thermal, and mechanical performance.



### Electrical Characteristics

The aluminium-reinforced 7628L glass fabric provides reliable dielectric insulation properties combined with improved thermal resistance due to the aluminium layer.

It is compatible with epoxy, phenolic, and polyester resin systems, ensuring consistent impregnation, bonding, and performance under thermal conditions typical for PCB manufacturing and electrical insulation applications.

The glass fabric laminated with aluminium foil is designed to operate within a temperature range from  $-60^{\circ}\text{C}$  to  $+300^{\circ}\text{C}$ , under normal service conditions and depending on the resin system used.

### Specifications:

**Color:** White / Aluminium

### Compliance & Certification:

- ISO 9001:2015

### Technical specifications: Glass Fabric 7628L

Parameter	Result	Standards	Conformitatea
Yarn count (Warp) threads/10 cm	170 (+4)	ISO 7211-2	OK
Yarn count (Weft) threads/10 cm	118 ( $\pm$ )		OK
Weave Structure	Plain weave	-	OK
Weight	$206 \text{ g/m}^2 \pm 5\%$	ISO 3342	OK
Loss on ignition %	0.07-0.30	ISO 1887	OK
Breaking force (Weft) kgf / 10 cm	$\geq 30$	ISO 3344	OK
Breaking force (Warp) kgf / 10 cm	$\geq 40$		OK
Surface finish	Silane	Manufacturer specification	OK



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### Aluminium Layer Characteristics

Aluminium layer type	Continuous laminated aluminium foil	Manufacturer specification	OK
Aluminium layer thickness	According to manufacturer specification	-	OK
Aluminium coating weight	According to manufacturer specification	-	OK
Adhesion aluminium-glass fabric	Good adhesion, suitable for lamination	Manufacturer specification	OK
Thermal resistance contribution	Improved thermal resistance-		OK
Heat reflection	Yes		OK

Operating temperature range	-60 °C to +300 °C	Manufacturer specification	OK	
Width	1 m ( $\pm 1\%$ )			
Roll length	The length of the roll may vary depending on the customer's requirements.			
Storage conditions	Store in a dry environment at 5°C-35°C with relative humidity below 75%.			

- The above product specifications comply with the declared characteristics. This data sheet is issued under the sole responsibility of the manufacturer mentioned above, in accordance with applicable industry standards.

**Signed on behalf of the manufacturer:** Diana Turcan

**Data:**28.01.2026