

# Technical Data Sheet

## Direct Roving 468G

Roving for Filament Winding, Pultrusion and Weaving

### Product Description

The Direct Roving 468G is roving produced by winding glass filaments without twist onto cylindrical bobbins. 468G sizing has a silane based coupling agent, which is compatible with epoxy and amine systems.

### Product Application

Direct Roving 468G is a product designed for filament winding, pultrusion and weaving for wind power blades.



### Product Benefits

- Constant tension;
- Uniform yield;
- No static;
- Fast wet-through;
- Excellent mechanical properties;
- Constant linear weight;
- Excellent mandrel coverage, giving the laminate a smooth and even surface.

### Identification

<b>Example:</b>	<b>ECT468G-740</b>
<b>ECT:</b>	CPID designation of type of glass, E-glass boron free
<b>468G:</b>	CPIC BRAZIL sizing reference
<b>740:</b>	Linear nominal weight of direct roving (tex)

## Technical Characteristics

Linear weight (tex)	Loss on ignition (%)	Moisture (%)	Tensile strength (N/TEX)
<b>ISO 1889</b>	<b>ISO 1887</b>	<b>ISO 3334</b>	<b>ISO 3341</b>
300 ± 15	0.60 ± 0.10	≤ 0.10	≥ 0.40
408 ± 20	0.55 ± 0.10	≤ 0.10	≥ 0.40
600 ± 30	0.55 ± 0.10	≤ 0.10	≥ 0.40
740 ± 44	0.55 ± 0.10	≤ 0.10	≥ 0.40
1100 ± 55	0.55 ± 0.10	≤ 0.10	≥ 0.40
2000 ± 100	0.55 ± 0.10	≤ 0.10	≥ 0.40
2400 ± 120	0.55 ± 0.10	≤ 0.10	≥ 0.40

\*Other linear weights are available on request.

## Roving Characteristics

Diameter (mm)		Nominal height (mm)	Nominal weight (kg)
Internal	External		
165	300	270	14 – 17*

\*Can contain 4 bobbins between 8 kg to 14 kg per pallet level

## Packaging

Each Direct Roving 468G is protected by a stretch film or adhesive, which should not be removed until it is completely used. The rovings are packed in Octahedra packaging put over a wood pallet. The packaging unit is the pallet.

Packaging	Level	Pallet Dimensions L x W x H (mm)	Net Weight (kg)
Octahedra	3	1140 x 1140 x 950	816
Octahedra	4	1140 x 1140 x 1220	1088

\*In case of specific requirements, please, contact us.

## Storage

The Direct Roving 468G 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 the use, to prevent condensation.

Pallets can be stored in 2 levels (1+1) using a protection between them (cardboard or wood panel).

CPIC Brazil recommends material consumption according to FIFO method (first in, first out).

### Integrated Management System Certifications:

**ISO9001**

**ISO14001**

**ISO45001**