

LINQCELL GDP250



250- μ m Graphitized Carbon Fiber Paper without MPL

- 0.25 mm – 250 μ m – 9.84 mil
- Customizable with PTFE coating and available in roll form
- Optimized as gas diffusion layers in fuel cells

LINQCELL GDP250 is a 250- μ m thick graphitized carbon fiber paper made from high-quality polyacrylonitrile (PAN) fibers. The fibers undergo a wet-laying process to form a non-woven, fibrous, and porous structure, which is then carbonized and graphitized. This high-temperature graphitization results in high electrical conductivity, high oxidation resistance, and excellent thermal stability, making **LINQCELL GDP250** highly recommended as gas diffusion layers in fuel cells. It can also be used as gas diffusion substrates for carbon dioxide electrolyzers.

Due to the absence of a microporous layer, **LINQCELL GDP250** exhibits high permeability despite its thickness (≥ 200 μ m). This makes it particularly well-suited for high-humidity fuel cell operation ($\geq 60\%$) at temperatures between 50 and 80 °C. In medium humidity conditions (20 to 60%), **LINQCELL GDP250** may perform effectively, but the temperature should be kept low (≤ 50 °C).

LINQCELL GDP250 can be customized to meet specific requirements. It can be coated with a 10 wt% PTFE layer and is also available in roll form.

Specifications

Property	Value	Unit	Test Method
Thickness	0.250	mm	ASTM D645
Nominal Basis Weight	65	g/m ²	ASTM D646
Through-plane Resistance	<6	m Ω · cm ²	ASTM C611
Tensile Strength (MD/XD)	24/22	N/cm ²	ASTM D828
Air Permeability	10	s	Gurley
Porosity	77	%	Mercury Intrusion Porosimetry

Storage and Handling

1. Shelf life is more than 2 years if stored in a dry and cool, well ventilated place at room temperature.
2. Do not leave exposed to moisture and sunlight for long periods of time.
3. Do not throw the plate or put heavy pressure on it and the box to avoid breakage.
4. Do not apply uneven pressure on the sheet.

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