

LINQCELL GDP120



120- μ m Graphitized Carbon Fiber Paper with MPL and PTFE

- 0.12 mm – 120 μ m – 4.72 mil
- High graphitization temperature with enhanced hydrophobicity from MPL coating
- Optimized as gas diffusion layers in fuel cells

LINQCELL GDP120 is a 120- 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 (2000 °C) results in high electrical conductivity, high oxidation resistance, and excellent thermal stability, making **LINQCELL GDP120** highly recommended as gas diffusion layers in fuel cells. It can also be used as gas diffusion substrates for carbon dioxide electrolyzers.

LINQCELL GDP120 has a microporous layer and PTFE coating, which provide hydrophobicity and increased surface area. The higher surface area maximizes catalyst utilization, which increases fuel cell efficiency. Meanwhile, the hydrophobic properties improve water removal and ensure stable operation by preventing flooding within the stack.

LINQCELL GDP120 performs best in fuel cell applications at temperatures between 60 and 80 °C with low (>20%) to medium (20–60%) relative humidity. For low temperature operations (≤ 50 °C), low relative humidity conditions (>20%) are recommended to optimize performance.

Specifications

Property	Value	Unit	Test Method
Thickness	0.120	mm	ASTM D645
Nominal Basis Weight	80	g/m ²	ASTM D646
Through-plane Resistance	<15	m Ω · cm ²	ASTM C611
Voltage Loss at 500 mA/cm ² and 20 N/cm ²	10	mV	–
Tensile Strength (MD/XD)	20/15	N/cm ²	ASTM D828
Air Permeability	100	s	Gurley

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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