

LINQCELL GDP250-MP



250-μm Graphitized Carbon Fiber Paper with MPL and PTFE

- 0.25 mm – 250 μm – 9.84 mil
- Enhanced hydrophobicity from MPL and PTFE coating
- Optimized as gas diffusion layer in fuel cells

LINQCELL GDP250-MP is a 250-μm 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 (1600 °C) results in high electrical conductivity, high oxidation resistance, and excellent thermal stability, making **LINQCELL GDP250-MP** highly recommended as gas diffusion layers in fuel cells. It can also be used as gas diffusion substrates for carbon dioxide electrolyzers.

LINQCELL GDP250-MP 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 GDP250-MP can be customized to meet specific application needs and is also available in roll form, offering added manufacturing and processing flexibility.

Specifications

Property	Value	Unit	Test Method
Thickness	0.250	mm	ASTM D645
Nominal Basis Weight	99	g/m ²	ASTM D646
Through-plane Resistance	<12	mΩ · cm ²	ASTM C611
Through-plane Resistivity	450	mΩ · cm	ASTM C611
Voltage Loss at 500 mA/cm ² and 20 N/cm ²	30	mV	–

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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