LINQCELL **GDL2000**

Graphitized Carbon Paper

- 2.00 mm – 2000 µm – 78 mil
- Low through-plane resistance
- Low voltage loss

LINQCELL GDL2000 is a high-performance graphitized carbon plate that can be used as a gas diffusion layer in fuel cells or porous transport layer in water electrolyzers. Its nominal thickness at 50 kPa is 2.00 (±0.1) mm.

LINQCELL GDL2000 offers low through-plane electrical resistivity and voltage loss, which are crucial for excellent electrical performance during fuel cell or water electrolysis operations. Its low compressibility ensures that it maintains its porous structure, enabling optimal material transport for chemical reactions even under compression. This product can be graphitized at 1600 and 2000 °C. Higher graphitization results in better electrical performance and a more compressible material while significantly increasing the material cost. It is mainly recommended when resistivity is of the utmost importance.

Overall, **LINQCELL GDL2000** excels in meeting the stringent requirements of fuel cells and water electrolyzers, supporting catalysts and functional layers, facilitating gas and liquid transport, and conducting heat and electricity effectively.

Specifications

Property	Graphitized at 1600 °C	Graphitized at 2000 °C	Unit	Test Method
Thickness at 50 kPa	2.06	2.06	mm	ASTM D645
Thickness at 2 MPa	2.02	1.99	mm	ASTM D645
Compressibility at 100 kPa	1.94	3.40	%	–
Nominal Basis Weight	1282	1302	g/m^2	ASTM D646
Through-plane Resistance	13.39	10.7	$m\Omega \cdot cm^2$	ASTM C611-98
Through-plane Resistivity	65.75	51.7	$m\Omega \cdot cm$	ASTM C611-98
Voltage Loss at 500 mA/cm^2 and 20 N/cm^2	31.9	29.8	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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