

LINQCELL GDP280



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

- 0.28 mm – 280 μ m – 11.02 mil
- Enhanced hydrophobicity from MPL and PTFE coating
- Optimized as gas diffusion layers in fuel cells

LINQCELL GDP280 is a 280- 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 (1600 °C) results in high electrical conductivity, high oxidation resistance, and excellent thermal stability, making **LINQCELL GDP280** highly recommended as gas diffusion layers in fuel cells. It can also be used as gas diffusion substrates for carbon dioxide electrolyzers.

LINQCELL GDP280 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 GDP280** performs best in fuel cell applications at temperatures between 60 and 80 °C and at low relative humidity levels ($\leq 20\%$).

LINQCELL GDP280 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	0.280	mm	ASTM D645
Nominal Basis Weight	100	g/m^2	ASTM D646
Through-plane Resistance	<10	$\text{m}\Omega \cdot \text{cm}^2$	ASTM C611
Tensile Strength (MD/XD)	37/33	N/cm^2	ASTM D828
Air Permeability	200	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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