



2050A-6060 Porous Carbon-Carbon Panel

Spectracarb™ 2050A-6060 GDL is a thicker / rigid grade GDL panel used mainly in higher pressure PEM electrolyzers for the cathode side, as well as for PEM fuel cells and general development.

| Measurement | Units | Spectracarb 2050A-6060 |
|--|-----------------------------|--|
| Size | mm | 400 x 400 500 x 500 Custom Discs |
| Thickness | mm | 1.5 |
| Basis Weight | g/m ² | 88 |
| Geometric Density | g/cm ³ | 0.60 |
| Average Pore Size | microns | 9 |
| Electrical Resistivity through-plane in-plane | mΩ·cm ² mΩ·cm | 18 5.4 |
| Thermal Conductivity through-plane (@ 25°C) through-plane (@ 100°C) in-plane (@ 25°C) in-plane (@ 100°C) | W/m·K | 3.4 3.6 20.7 24.2 |
| Tensile Strength MD XMD | MPa | 4.2 2.6 |
| Flexural Strength | MPa | 37 |
| Flexural Stiffness | GPa | 9.5 |
| Compressive Strength | MPa | 2.1 |

A complete list and discussion of Spectracarb Products can be found at www.Spectracarb.com

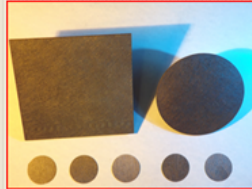
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Spectracarb™ GDL

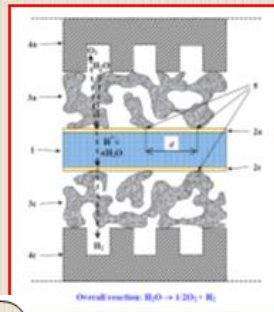
Spectracarb Panels for Electrolyzer Cathode Current Collectors

- Lower Cost Alternative to Titanium Mesh / Sintered Ti
- Thicker Plates (Up to 5mm)
- Higher Density (up to one g/cm³)
- Higher Bending Stiffness vs Stacking of Thin Papers
- Function as Elastic Springs in Compression (30%)
- Machinability
- Hybrid Constructions Possible



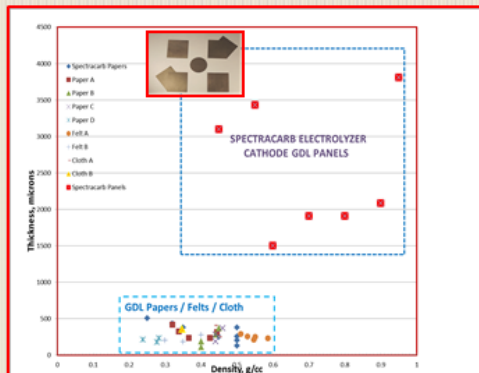
Spectracarb™ GDL

PEM Electrolyzer Cathode Current Collector



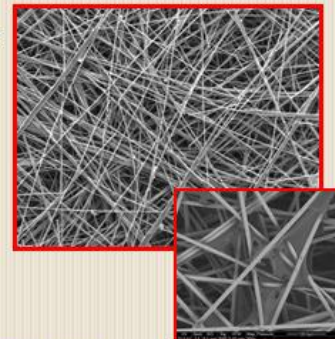
Spectracarb™ GDL

Spectracarb GDL Panels For Electrolyzer Cathode Applications



EFT / Spectracarb GDL Macroporous Graphite Materials

- Very High Conductivity Porous Graphite Papers / Panels
- High Strength and Durability
- Good Air Permeability
- Moisture Transport / Water Management
- Lab-Scale Prototype Development to Commercial Scale Manufacturing
- Produced in US / Capling European Agent



Spectracarb™ GDL

