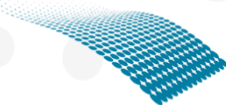


AvCarb GDS2185™

Designed for Dry or Self-Humified Systems

AvCarb®



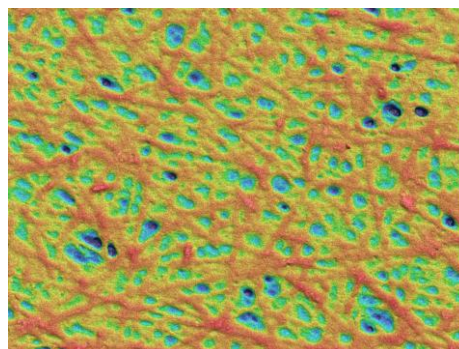
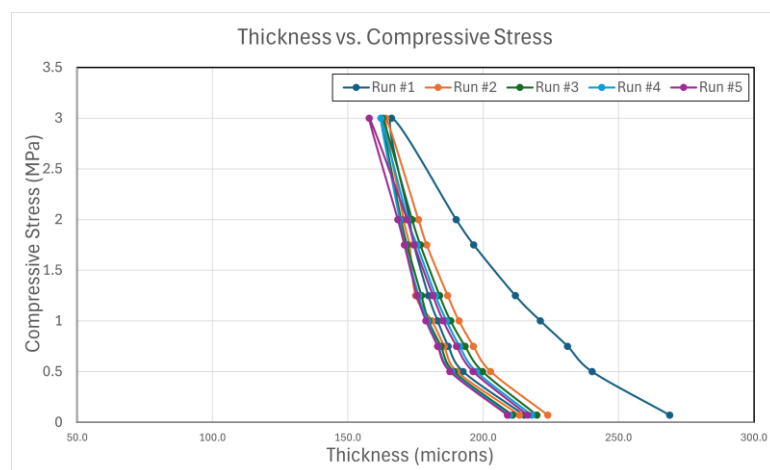
Product Benefits

- ✓ **Value to the customer**
 - Best in Class Uniformity for Consistent Performance
 - Widest & Longest continuous commercial rolls
 - 100% Visual Inspection with Defect Mapping
- ✓ **Functionality**
 - Mechanical Compliance for Improved Sealing
 - Smooth MPL for GDS Production & Thin Membrane Compliance
 - High Corrosion Resistance
- ✓ **Performance Characteristics**
 - Reduced Porosity to Retain Water in Dry Systems
 - High Taber Stiffness to prevent Channel Intrusion
 - Thicker Paper Design for Improved System Compatibility
 - High Hydrophobicity for Long Term Stability
 - High Purity Design for Maximum Performance Life



Nominal Properties	Unit	AvCarb GDS2185
Base Material	-	AvCarb P75M
Nominal Thickness @5.0N/cm ²	um	269
Nominal Thickness @1MPa	um	221
Nominal Thickness @2MPa	um	190
Nominal Basis Weight	g/m ²	155
MD Break Strength	N/m	≥ 1500
MD Stiffness	Taber units	≥ 10
Compressibility (from 1 – 2 MPa)	um	31
CMD Stiffness	Taber units	≥ 5
Bulk Density @0.69 N/cm ²	g/cm ³	0.58
TP Electrical Resistance @1MPa	mΩ.cm ²	≤ 33
Surface Roughness (Ra)	um	5
Metallic Impurities	ppm	≤ 10

AvCarb GDS2185 is sold as continuous rolls (≤1000 LM) at a standard width of either 800mm or 400mm



Units	Ra
Avg (μm)	5.1
Max (μm)	7.2
Min (μm)	3.5
St. Dev (μm)	0.93



AvCarb Material Solutions
Two Industrial Avenue
Lowell, MA 01851 USA
www.AvCarb.com



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AvCarb Material Solutions specializes in the development and production of advanced carbon materials. With a rich heritage dating back to the 1960s, we are a global leader in supplying innovative carbon-based solutions for industries including aerospace, energy, and chemical processing.

We design and manufacture high-performance engineered carbon materials such as fabrics, felts, and papers. Our products are known for exceptional quality, reliability, and performance —especially in high-growth electrochemical applications like fuel cells, electrolyzers, and advanced batteries. Our deep technical expertise and commitment to innovation have earned us a reputation as a trusted provider of advanced carbon materials.

Global Markets

Our specialty carbon products provide the highest performance and best quality in markets that are critical for energy security and stability, improving fuel efficiency, reducing global warming, and delivering high-end user satisfaction.

Electrochemical

- Fuel Cells
- Electrolyzers
- Flow Batteries
- Lithium-ion Batteries

Chemical Process

- Chlor-Alkali Electrodes
- Capacitive Deionization
- Activated Carbon Filters

Transportation

- Fuel Cells
- Torque Converter
- Cone Synchronizer
- Wet Clutch and Brakes

Sporting Goods

- Sport Fishing



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