AIRFLOW RESISTANCE METER
For Acoustic Materials

PMI ARM - C522

PMI
Porous Materials, Inc.

Not just products...solutions.

Description:

The PMI Airflow Resistance Meter follows the specifications of ASTM C522-03 and provides quick and accurate resistivity values in Rayls. Air is forced through the material at required velocity or flow rate and corresponding pressure drop is measured to provide the resistivity valves.

Application

The PMI Airflow Resistance Meter provides direct Rayl values to be used by QC and R&D engineers working on acoustic damping materials for various applications. Specific Airflow Resistance is defined as the product of the airflow resistance of a specimen and its area. This is equivalent to the quotient of the air pressure difference across the specimen divided by the linear velocity, measured outside the specimen, of airflow through the specimen.
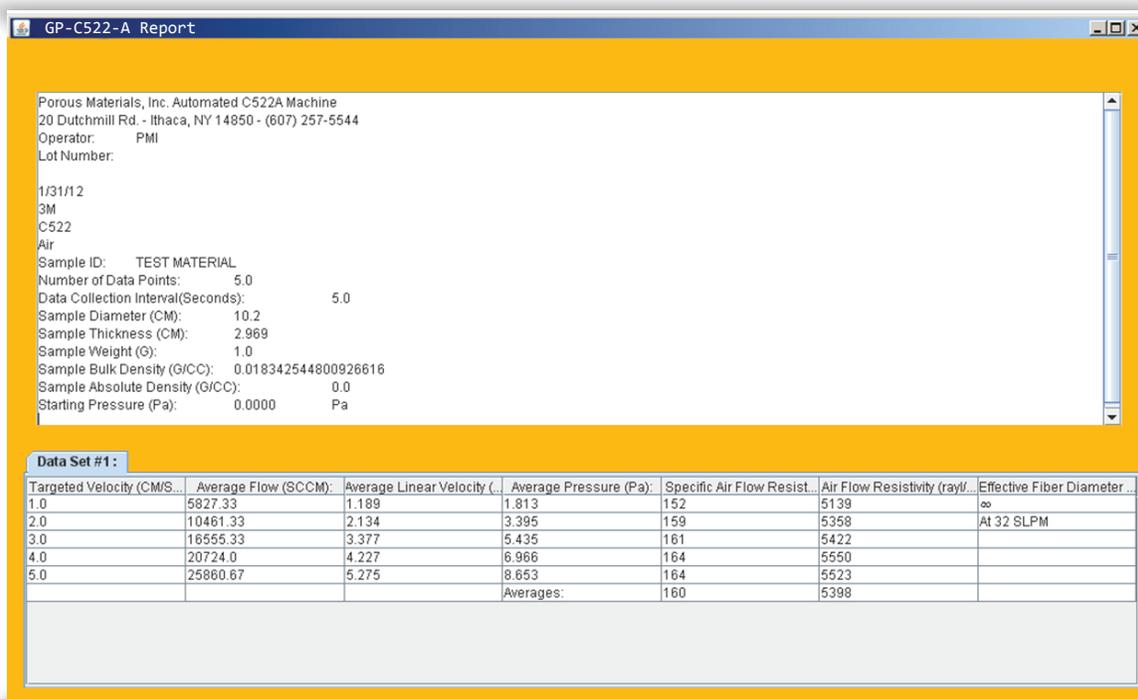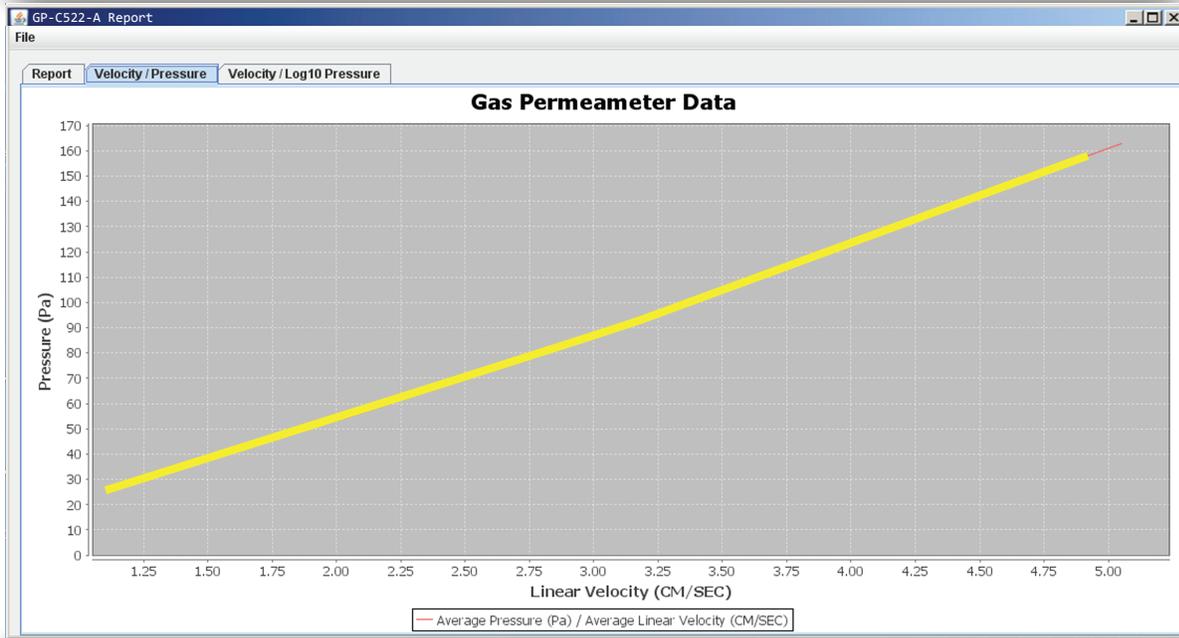
Software

Figure 1
PMI Software Report Screenshot

PMI Software Report Graph Screenshot

Features

Windows-based software handles all control, measurement, data collection, and report generation; complete manual control also possible

Compatible with Windows 97 or higher

Real-time graphical test display depicts testing status and results throughout operation

Non-destructive testing

Length of test approximately 10 minutes

Minimal maintenance required

Multiple sample chambers available

Specifications

Permeability Range: 100 - 10,000 Mks Rayls

Pressurizing Gas: Clean, dry or compressed air (or any other non-flammable and non corrosive gas)

Pressure Transducer Range: 0 - 500 PA

Resolution: 1 -60,000

Accuracy: 0.15% of reading

Mass Flow Transducer Range: $10cm^3/min$ - $50,000 \, cm^3/min$

Power Requirements: 110/220 VAC, 50/60 Hz (others available)

Dimensions: 30" H x 19" W x 18.5" D

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and reproducable porometers in the world.

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35

years

of solutions