

PRODUCT PROPERTY CHART

AIR FLOW VS PRESSURE DROP

INTRODUCTION

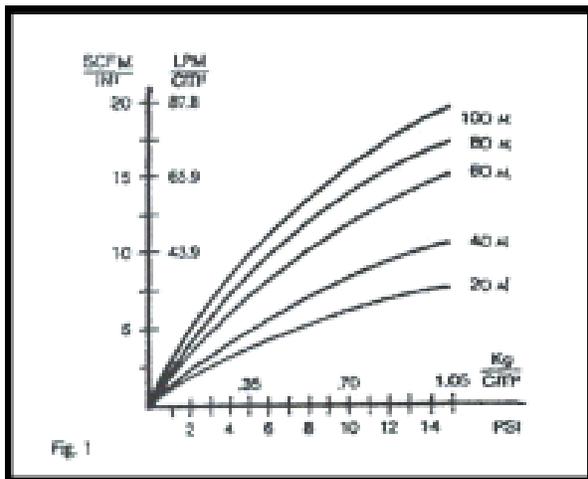
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The flow charts presented here were generated by conducting flow tests on porous plastic discs 1/8" thick, 20 to 100 micron average pore size, and 40 to 50% void volume. An increase in void volume of the test disc results in a higher flow at the same pressure and average pore size. Back pressure and flow rates are essentially proportional to material thickness. These flow charts should only be used as a guide, other factors such as surface finish and pore size distribution, can affect permeability. The values on the outside of the charts are in English units, whereas the inside values are metric.

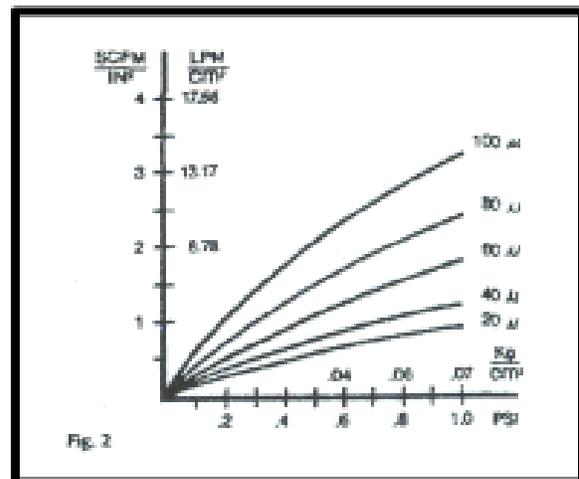
HIGH AIR FLOW VS. PRESSURE:

1/8" THICK POROUS PLASTIC



LOW WATER FLOW VS. PRESSURE:

1/8" THICK POROUS PLASTIC



Example: Determine pressure drop through 1/8" thick 40 micron material at a flow of 3 GPM/IM². Use Figure 1 and read down left side to 3, then across to the 40 micron curve, and down to 30 PSI. To determine the pressure drop for 3/8" material under the same flow conditions, use the following equation:

$$\frac{\text{Required Thickness}}{\text{Original Thickness}} \times \text{PSI value of original Thickness} =$$

$$\frac{3/8"}{1/8"} \times 30 = 90 \text{ PSI}$$

Legend GPM/IN² - gallons per minute per square inch of material
 KG/CM² - kilograms per square centimeter
 μ -microns

LPM/CM² - liters per minute per square centimeter of material
 PSI - pounds per square inch

For more information, contact us at 1-800-654-4391 or sales@genpore.com

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