

Measuring sample:

Name: **SONOR**
Description: acoustic fabric
Manufacturer: création baumann Weberei und Färberei AG, CH-4901 Langenthal
Client of measurement: manufacturer

Measuring conditions:

Standard: DIN EN 29053: Materials for acoustical applications; Determination of airflow resistance (ISO 9053)
Method: direct-airflow method, measurement at 5 different airflow velocities and extrapolation to an airflow velocity of 0,5 mm/s
Specimen holder: round, 112,8 mm diameter
Temperature: 22 °C
Relative humidity: 56 %
Measurement date: 2006-03-31

Specimen:

Total number: 1
Shape: specimen (ca. 200 mm x 180 mm) fit in specimen holder
Effective cross section: 100 cm²

Single Results:

| Specimen | Nr. 1 | | |
|------------------|-------|------------|-------|
| | u | Δp | R_s |
| Measuring values | 37,7 | 0,415 | 11 |
| | 30,6 | 0,334 | 11 |
| | 24,0 | 0,225 | 9,4 |
| | 17,5 | 0,173 | 9,9 |
| | 11,1 | 0,126 | 11 |
| Extrapolation | 0,5 | | 10 |

(Airflow velocity u in mm/s, pressure difference Δp over specimen in Pa, specific airflow resistance R_s in Pa s/m)

Measuring result:

| |
|---|
| Specific airflow resistance $R_s = 10$ Pa s/m |
|---|