

Airflow resistance on the base* of DIN EN 29053 (ISO 9053)
Measurement of specific airflow resistance R_s

A 01 E

Measuring sample:

Name: SOLID 6
 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 10 different airflow velocities and extrapolation to an airflow velocity of 0,5 mm/s
 Specimen holder: round, Diameter 112,8 mm
 Temperature: 23 °C
 Relative humidity: 40 %
 Measurement date: 2010-03-01

Specimen:

Number of specimen: 1 of 2
 Diameter: 112,8 mm
 Effective cross section: 100,00 cm²
 Thickness: -
 Measurement setup: specimen (ca. 200 mm x 180 mm) fit in specimen holder
 * required number of specimens according to ISO 9053: 3 x 3 = 9

Measurement result:

	u	Δp	R_s
Measuring values			
	Extrapolation	0,5	

Note!
 ** the very low airflow resistivity of the material "SOLID" and the resulting very low pressure difference above this material don't allow a maximum of measuring inaccuracy under 5% according to EN 29053. That's why this result is valid only as **an assessment value!**

Airflow velocity u in mm/s
 Pressure difference over specimen Δp in Pa
 Specific airflow resistance R_s in Pa·s/m

Measuring result: **Specific airflow resistance R_s = < 2,7** Pa·s/m**

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Report-No.: 100050053501-A01E
 Editor: C. Schulze, V. Bormann
 Date: 2010-03-05