

DMT GmbH & Co. KG

Division Plant & Product Safety
Business Segment
Refrigeration/Air Quality

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Managing Company:
DMT Verwaltungsgesellschaft mbH
represented by its managing directors
Prof. Dr. Eiko Räkers (CEO)
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Dr. Guido Rettig

DMT GmbH & Co. KG
Registered office: Essen
Registration court: Amtsgericht
Essen, registration no. HRA 9091

DMT Verwaltungsgesellschaft mbH
Registered office: Essen
Registration court: Amtsgericht
Essen, registration no. HRB 20420

TÜV NORD GROUP

T e s t R e p o r t

Performance Test Pollen screen textile "Polltex" according DIN EN 779:2012-10

APS2 No. 00 060 16 a

Essen, 28/06/2016

DMT GmbH & Co. KG



(Selck)



(Schamberg)

This test report consists of 9 pages including the Test Certificate acc. DIN EN 779:2012-10.
This test report may not be copied, neither complete, nor partly without our agreement.

Accreditation according DIN EN ISO/IEC 17025:2005
Test procedure according DIN EN 779:
Particle air filters for general ventilation



DIN EN ISO
9001
zertifiziert



- | | | |
|----|----------------|--|
| 1. | Order | Test of Pollen screen textile "Polltex" with regard to dust separation efficiency according DIN EN 779:2012-10 |
| 2. | Customer | L. van Heek Textiles BV
Gronausestraat 309
P.O. Box 1
NL - 7580 AA Losser
Netherlands |
| 3. | Contact person | Mr. Paul Mekkering |
| 4. | Contact Person | Dr. Dirk Renschen
Johannes Schamberg |
| 5. | DMT Order-No. | RK 20662222 |
| 6. | DMT Report-No. | APS2 00 060 16 a |

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Test of pollen screen textile “Polltex” with regard to dust separation efficiency according DIN EN 779:2003-05

Test:

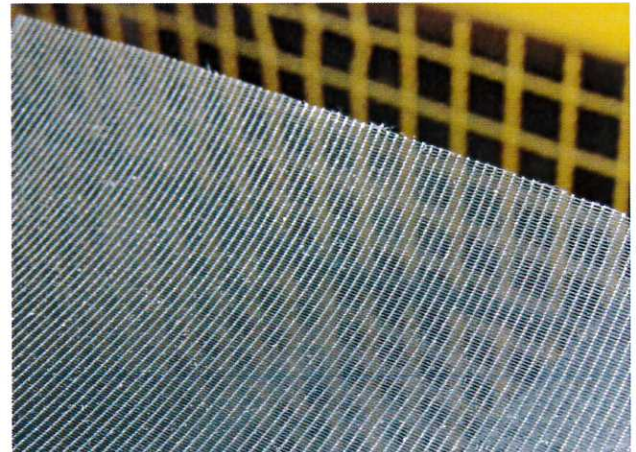
Type of test: Performance test according DIN EN 779:2012-10
Date of test: 17.06. – 21.06.2016
Test-Location: DMT GmbH & Co. KG,
Dept. Product Assessment Refrigeration/Air Quality –
Laboratory for Air Hygiene, Test rig acc. DIN EN 779

Specimen (*):

Filter type: flat (filter) medium (primary main purpose as pollen screen)
Manufacturer: van Heek textiles (NL)
Model: Medium 1: “Polltex”



Picture 1: Labelling



Picture 2: flat media (fly screen)

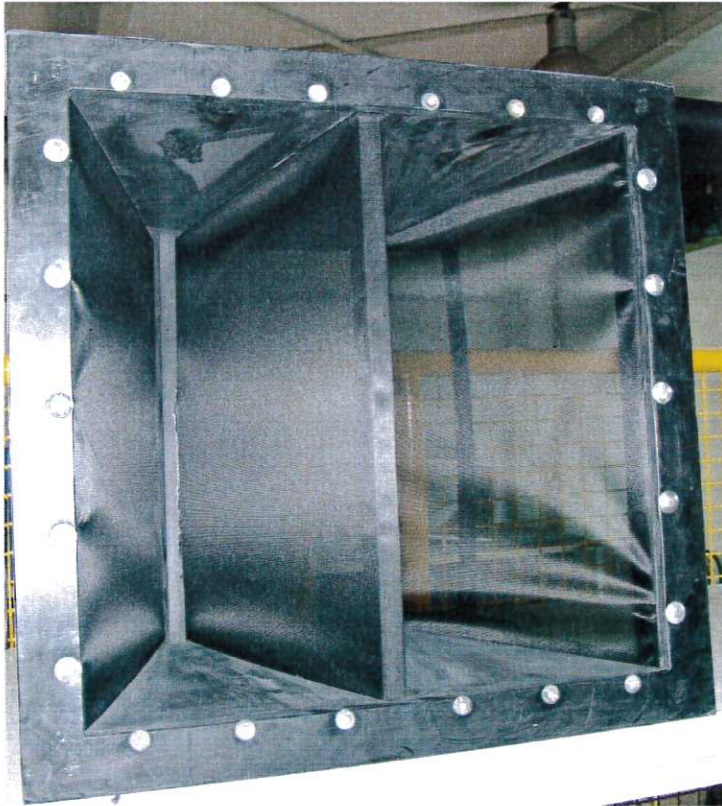
Preparation: For testing purpose the flat medium was stretched and fixed on a W-shaped filter frame in order to ensure a suitable filter area respectively filter velocity (see picture 3)

Shape: W - shape
Filter frame
Dimensions: Width 550 mm x Height 505 mm x Depth 540 mm
Total Filter Area: 1.0 m²

(*): All technical specifications and general information according customer's declaration

Test- Conditions:

Nominal Air Volume Flow: 900 m³/h



Picture 3: Filter medium stretched and fixed on a W-shaped filter frame

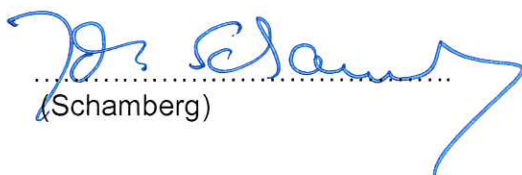
Test - Result:

The medium under test "Polltex", stretched and tested on a W-shaped frame, has got no measurable initial efficiency for DEHS – particles 0.4 μm at the rated air volume flow. The average arrestance (A_m) at final pressure drop of 250 Pa was determined to 48.1 %. A filter cake was generated by storing the ASHRAE test dust on the surface of the "Polltex" material. Thus, according DIN EN 779:2012-10, the medium doesn't match the requirements for a G1 class – classification ($50 \% \leq A_m < 65 \%$).

**Test results are presented in the attached Test Certificate according
DIN EN 779:2012-10:**

- Page 1 of 5: General information, details of device tested, Test data and Test results
- Page 2 of 5: Efficiency and uncertainty after different dust loading phases (not applicable)
- Page 3 of 5: Test results regarding Average efficiency at different final Pressure drops
(not applicable)
- Page 4 of 5: Test results regarding the Pressure drop and Arrestance after different dust
loading phases
- Page 5 of 5: Test results regarding the Air flow rate and Pressure drop after different dust
loading phases

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A handwritten signature in blue ink, appearing to read 'Dr. Schamberg', is written over a horizontal dotted line. The signature is stylized and extends to the right.

(Schamberg)