

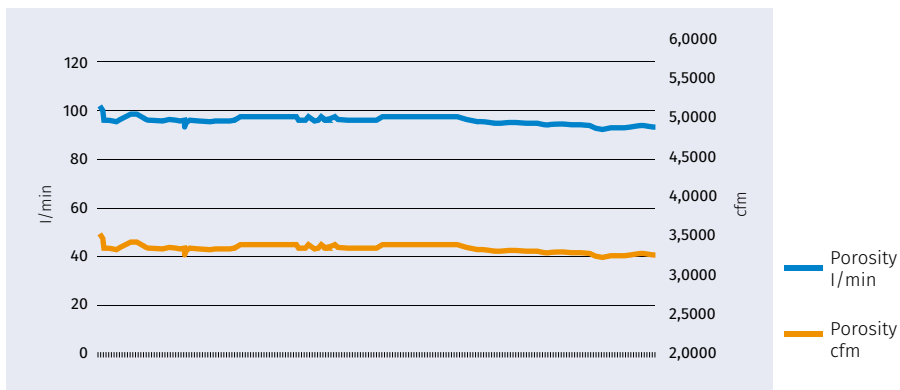


PERMI Application note

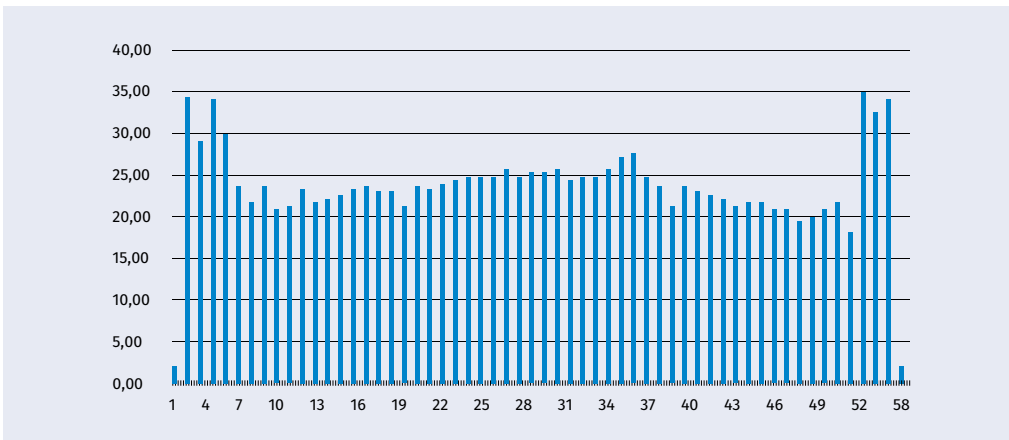
Forming fabric quality control in airlaid nonwoven

ACA Systems Oy has successfully delivered the first Permi HP air permeability analyzer for forming fabrics online quality control application in airlaid nonwoven process. Idea is to be able to predict the life-time and change time of the forming fabric. No such reliable analysis has been available so far.

Below graph shows how new forming fabric starts slowly to loose its air permeability characteristics when continuously used in airlaid nonwoven process. This graph would serve as a basis for the process parameter optimization to enhance life time of the forming fabric.



Below graph show a CD air permeability profile of a used forming fabric. It is a subject to further study if CD analysis provide vital additional information over fixed point analysis as shown above. Note the edges of the forming fabric. Both edges have approximately 10cm of unused fabric that can be used as reference information for the forming fabric quality analysis.



FELTS & FABRICS |

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| Application areas | Machine clothing & wires, other fabrics and textiles |
| Key process factors reflected by PERMI | wear, life time, cleanliness and dewatering (wet laid) |
| Key quality factors reflected by PERMI | Permeability, strengths, uniformity |