



## ACA RoQ Application note: **Bagginess**

Better quality, less runnability issues



### Case summary:

**GRADE:**

Plastic film, paper, nonwovens, aluminium foil

**ISSUE:**

Bagginess

**ROOT CAUSE:**

Uneven CD profiles, especially caliper

**SOLUTION:**

ACA ROQ ROLL HARDNESS MEASUREMENT

**KEY VALUE:**

Better quality, less rejected rolls, improved runnability and higher production efficiency

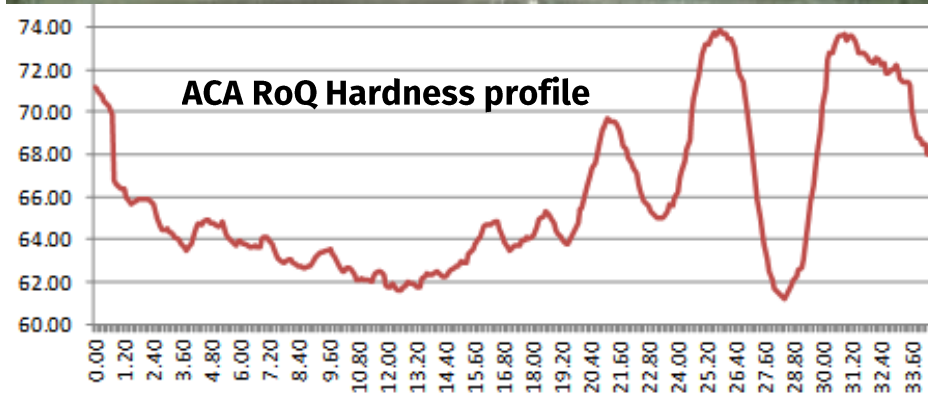
### Problem

“Web bagginess is a defect so tenacious that few machines will totally escape its grip. It can be found on web formers, calenders, coaters, printers, weaving machines, winders and so on. It is so pervasive that it can be found on materials as diverse as tissue, writing paper, carpet, nonwovens, plastic film and steel strip. While it is expected that defects share similar physics across dissimilar grades, it is very unusual for a defect to have such a range as does bagginess. Thus, even though the defect may not be the number one cause of waste on a particular machine, its total cost to the web industry could be quite large.” – David Roisum, *Baggy Webs: Making, Measurement & Mitigation thereof*

### Solution

Bagginess itself is very difficult to measure and there are not so good direct measurements available. However, roll hardness measurement, as an indirect very sensitive profile measurement, correlates often very well with bagginess. Even hardness profile means even web tension profile in unwinding and no bagginess.

ACA RoQ Roll Hardness Profiler – State of the Art instrument designed to solve precisely this type of issues in plastic, paper and nonwoven applications.



ACA RoQ hardness profile correlates well with visual observation of bagginess