



Case Study

How PrintSTAR supports a producer of flexible packaging with their cold seal application

The Challenge

Today's packaging industry is increasingly focussed on sustainability – protecting the environment, using energy and resources sparingly, and recycling. Sustainable production also means that defect rates and waste need to be reduced to a minimum. A medium-sized producer of cold-sealed flexible packaging films for the food and cosmetics industry faces a challenge here. The packaging it produces has to be completely impermeable to high moisture levels, oxygen, and aromas. Additionally, the films are printed according to customer specifications on one side, and a patterned adhesive is applied on the reverse side of the film. The application's printed front side must be precisely aligned with the registration. Another challenge is that various films are typically finished with reflective surfaces.

The Solution

PrintSTAR Multi-View

- **Monitors the process to ensure that the coating is uniform and free from voids**
- **Detects all relevant defects like missing seals or deviation in the register**
- **Checks individual and recurrent cold-seal defects in real-time**
- **Inspects both sides, printed front and sealant on the reverse side, with the same system platform**

Customer Benefits



Maximized production output and material savings

The PrintTAR Inspection system helps to save material by allowing the printed film width to be reduced. The manufacturer can now change the process by eliminating the printed registration marks for the adhesive, which are no longer needed.



Audio alert

The inspection system allows users to set up an audio alert to warn the operator if the cold seal applied to the substrate is in misalignment to the print.



Reliable detection at fast speed

PrintSTAR is monitoring the correctness of the cold-seal pattern while the laminating machine works with a web speed of 1,000 feet per minute.



Review and Analysis

The quality department can use the collected data to improve the standards in upstream processes. Information about defect trends will help to reduce waste and lower production costs.

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