

# Case Study - Mono Material, Laminate

An all-polypropylene film laminate using a RecyClass approved solvent free adhesive.



# BOSTIK



**Stephen Langstaff, Business Development Manager, Innovia Films** states -

*"This solution resolves the misconception that flexible packaging cannot be recycled. It will prevent some poor environmental choices, where brands switch to packaging with higher Global Warming Potential than flexible alternatives."*

**Wladimir Moraes, Global Market Manager Flexible Packaging Lamination, Bostik** explains -

*"Anticipating these market needs, our SF10M proven recyclable solvent free laminating adhesive was purposely designed and thoroughly tested to fit recycling streams for PE and PP films. It is the perfect match for innovating mono-material solutions such as this one from Innovia, enabling the high quality recycling necessary for a truly circular economy for flexible packaging: back to film again!"*

## The Challenge

Laminates are required in certain markets to achieve the required properties such as barrier, printability and sealability to protect the product it wraps. Achieving one that provides these properties and is fully recyclable in industrial recycling streams, including the adhesive can be difficult.

## The Application

Pouches are a popular packaging format used across many markets. In many cases these structures are created from mixed materials and are difficult to recycle. By combining an OPP and a Cast PP to create an all PP structure using a thin layer of solvent free adhesive and suitable inks, a fully recyclable solution can be achieved.

## The Solution

**Propafilm™ CHS 25** (with improved thermal resistance and shrinkage properties for the outer web)

**Bostik SF10M PU** (solvent free adhesive that is RecyClass technology approved)

**Propacast™ KF 30** (a low temperature sealing film for the inner web)

This construction provides excellent sealability and barrier properties, creating an ideal structure for pouches and the solvent free adhesive allows processing at low temperatures.

## Technical Benefits

- Solvent free
- Strong seal integrity (KF)
- Heat resistant, reduced distortion (CHS)

## Sustainability Benefits

- The creation of an all PP structure facilitates recyclability
- Opportunity for reducing carbon footprint compared to mixed laminates
- RecyClass technology approved adhesive is solvent free and significantly improves recyclability of the pack in industrial PP recycling processes.

# RecyClass

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