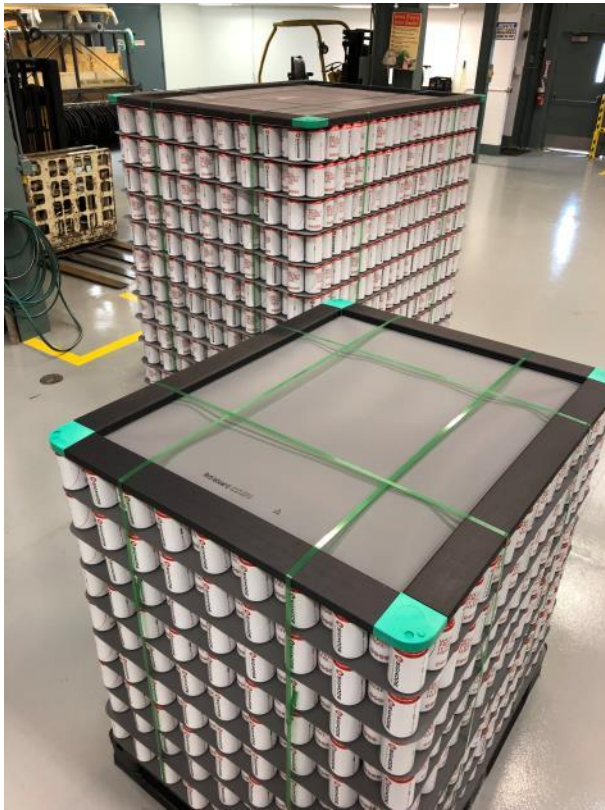




Preferred supplier to the can industry



Vincent Raucoules / Global Product Manager

Prabhakar Milavarapu / General Manager - South East Asia

Introduction Signode



- Our Vision:

“To be the premier market-leading global industrial packaging company”

- +7,000 employees worldwide
- 80 plants on six continents
- \$2.4B annual revenue in 2018
- 37 Sub-brands
- www.signode.com



- **Plastic Packaging**
 - Plastic Separator Sheets
 - Plastic Top Frames
 - Separator sheet Cleaning Machine
- **Signode Strapping**
 - PET Strapping
 - Strapping Machines
 - Strapping Hand Tools
- **Octopus**
 - Stretch Wrapping Machines
 - Stretch Hooding Machines



Plastic Packaging / Separator Sheets



- Plastic Separator sheets last 10 – 20 times longer than a solid fiber sheet. (150+ life cycles vs. 10 w/paper)
- Plastic is 3-4 times more expensive than solid fiber (Initial purchase) but the cost/trip is significantly less.
- COF (coefficient of friction) and flatness is more consistent with plastic separator sheets, resulting in less containers tipping over during “sweeping” from the sheet. This means less line down-time and associated costs.
- Moisture and bacteria resistant
- Odorless, no flavor migration



- No tearing of plastic layer pads like fiber pads preventing operation disruption
- Ease of operation with palletizer and de-palletizer
- Nesting of the can or bottles, allows stability of load during handling, storage and transport
- Recyclable (Polypropylene)
- Major fillers around the world prefer their container suppliers use all-plastic dunnage (pallets, tier sheets and top frames)



Plastic Packaging / Separator Sheets



- Key Specifications:
 - Size:
 - 1000mm x 1200mm
 - 1120mm x 1420mm
 - Custom sizes available
 - Thickness:
 - 0.65mm / 0.80mm
 - Other thickness available
 - Color
 - Printing
 - Various corner geometry



Plastic Packaging / Top frames



- Industry leading strength to weight ratio
- Reversible frame orientation, no defined top and bottom
- Easy to use in manual and automated applications
- Interlocking male/female corner keys prevent slippage when stacked during storage and transit



- Smooth plastic construction
- Safer to handle than wood and metal frames
- No splinters or nails common with wood frames
- Rounded corners prevent puncturing stretch film or damage to adjacent pallets
- Resistant to contamination from moisture, chemicals, insects and corrosion



Plastic Packaging / Top frames



- Fully repairable using basic tools
- Can be washed and reused hundreds of times extending its life beyond that of competitive top frames
- Personalized boards and corner keys for easy identification



Plastic Packaging Separator Sheets Cleaning Machine



- Configuration: Right or Left Hand Discharge per customer at time of order
- Speed: Single sheet sort per operator up to 25 sheets/minute . Sheets are going through a 2 stage anti-static device
- The sheets are going through a set of circular brushes along with vacuum devices that will retrieve the debris and dirt
- The sheets are going through a second anti-static device
- Floor level operation of entire system



Plastic Packaging Separator Sheets Cleaning Machine



- Complete programmable controls including sheet count / stack height.
- Status indicator lights for machine operator and lift truck drivers.
- Safety light curtain, guarding and E-Stop at stacking bin.
- Remote operator push button station including E-Stop.
- Long life spiral wound Nylon brushes for cleaning top and bottom of sheets.





THANK YOU