# **Engineered Materials**

Always Advancing to Protect What's Important



### Engineered Materials Leadership Team



Mike Hill President



John Matuscak EVP & GM Performance Materials



Jerry Lamarre EVP & GM Engineered Products



Owen Richardson EVP & GM Laddawn

## **Product Spotlights**

### **Performance Materials**

### Next generation stretch film

# Proprietary technology withstands extreme working environments

### **Market Dynamics**

- Damaged loads cost industry \$2 billion per year
- Average material cost is 70 cents per pallet
- Average value of product = \$4,500 per pallet

### Performance Film Value Proposition: Damage Reduction

- Superior tear and puncture propagation resistance
- Expanded operating window equipment and temperatures
- Improves wrapping efficiencies
- Bottling operations throughput rates at 40+ pallets / hr
- Sustainability driven by less film use







## **Engineered Products**

Converter films growth highlight

### **Air Jacket Mailer Construction**

- Three film layers heat laminated together
- Berry to supply outer white/silver layer • (multi-layer construction)
- 2-color print ٠
- 3-year commitment secured with possibility of an additional 3 years

### **Major Capital Investments in Orillia and Bowling Green**

### **Volume Expectations:**

- 2018 = 20 million lbs •
- 2019 = 50 million lbs ٠
- 2020 = 100 million lbs



#### **Partnership With:**





Finished Packad One lonaitudinal seal which hances security of the contents.



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## **Engineered Materials Division**

### Retail packaging spotlight

### **Old Retail Packaging Design**

- Communication not aligned to consumer decision-making
- Illustration graphics
- 3-color, direct print packaging

#### New Retail Packaging Design

- Photographs (unique by gallon size)
- Iron-Hold logo highlighted
- Aligned to consumer decision-making criteria
  - Compartmentalized for ease in shopping
  - Gallon, count, mil gauge, closure
  - Color-coded by gallon size
  - Made in USA call-out
- 4-color process print production
- Integrated box handle added

#### 42 Gallon



#### 55 Gallon







### **Engineered Materials Division**

Custom films spotlight - compressed mattress film

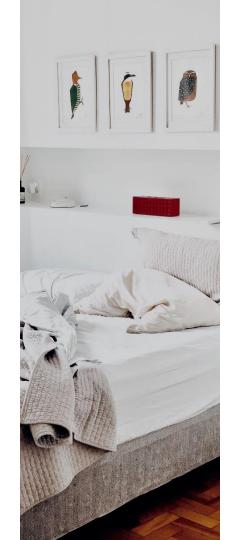
### **Growing Market of Compressed Mattresses**

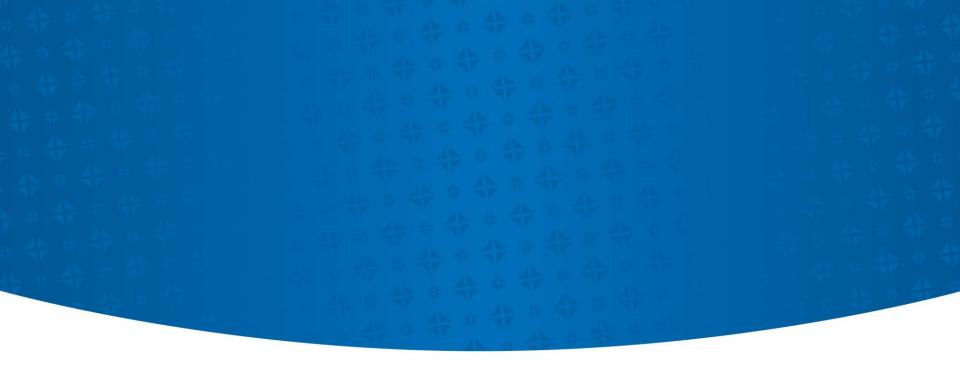
- Demographic / channel driven
- ~10% of US retail mattress sales (\$14B industry)

#### Well Positioned (Leveraging legacy AEP business)

- Custom film product development
- Excellent market coverage / product knowledge
- Selling to end-users and equipment manufacturers

## Product and Customer Diversification Preserves volume and enables growth.





## **Thank You**

Questions?