



# PolySource

Resin • Solutions • Delivered



More than a resin distribution company,  
your partner in delivering  
**solutions**

# Who Are We?



**Consultants**



**Technical Problem  
Solving**



## Case Study – Beverage Bottle Conveyor

Customer was experiencing issues in a speed-limited bottling plant because of too much frictional heat build up in a corner section. The contact pressure between the edge of the moving conveyor and stationary nylon corner wear strip generated enough heat to melt the acetal conveyor.

### **HOWEVER...**

- The wear strip was losing its wear resistance over time as the nylon 66 absorbed moisture
- The conveyor was located in an area of the bottling operation where frequent cleaning and rinsing with water were necessary to remove sticky build up from spilled beverage
- This was causing the wear strip to reach moisture contents greater than 4.5%

**Enters PolySource with a Solution!**

# Consultants



# PolySource

## Recommends a Lubricated POK

PolySource Integra POK 9060 LX BK-4000

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## **Features**

- Low coefficient of friction even without external water
- Its frictional and wear performance are unaffected by moisture
- Melting point of 428F/220C

**PolySource Provides Efficiency = Savings!**

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## **Advantage**

- Line speed could be increased from 300 FPM to 380 FPM while still achieving the desired conveyor lifetime

**In Addition...Processing Cost Savings!**

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## **Benefits**

Converting the wear strip to PolySource Integra POK increased material cost 16%, however...

- The up-time of the process was doubled lowering the cost 20%
- 100 FPM increase in line speed lowered the total cost to 27%

**PolySource Recommends a Solution Resolving a Significant Cost Penalty & Providing an 11% Savings!**