



PolySource

Resin • Solutions • Delivered



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

Who Are We?



Consultants



**Technical Problem
Solving**

Case Study – Converting Machined Component to Injection Molded



OEM is machining a wear pad from sheet stock that requires a unique balance of wear resistance, and the ability to act as speed brake on a gravity powered armature

HOWEVER...

- Material comes at a high price-\$10.00/lb.
- Minimum order quantity of the sheet stock requires the OEM to purchase & inventory approximately a two year supply of raw material
- Lead time on imported raw material is 12-16 weeks
- Machining results in a loss of 20% of the sheet product
- Requires use of a CNC machining center and operator
- Downstream assembly is limited due to the time it takes to machine the wear pads, which leads to labor efficiency issues
- Overall manufacturing costs were calculated at \$18.00 per wear pad, an annual expense of \$150,000

Enters PolySource with a Solution!

Consultants



PolySource
Recommends an Injection
Moldable Compound

PolySource **Recommends an Injection** **Moldable Compound**



Features

The material meets all the customer's applications requirements, including the same wear resistance and frictional needs

PolySource utilized our material testing capabilities along with customer performance criteria to develop a custom compound with similar performance

PolySource connected OEM with a local injection molder

PolySource provided assistance at each mold trial

PolySource Provides Efficiency = Savings!

PolySource **Recommends an Injection** **Moldable Compound**



Advantages

Low cost material

Increase raw material inventory turns

Eliminate large minimum order quantity and required storage space

Re-allocate machine center and operator

Improve overall throughput

In Addition...Processing Cost Savings!

PolySource **Recommends an Injection** **Moldable Compound**



Benefits

Cut manufacturing costs by 35%

Increased line efficiency

ROI on the injection mold was less than 7 months

Connected OEM with local molder which led to additional business

PolySource Recommends a > \$50,000 Savings!