



# PolySource

Resin • Solutions • Delivered



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

# Who Are We?



**Consultants**



**Technical Problem  
Solving**



## Case Study – Aftermarket Filtration

Customer had new tools built and is molding the filters out of glass filled PA 6/6

### HOWEVER...

The material was not performing well with the new hot runner system  
The customer had issues with the material drooling and parts freezing off  
High scrap rate started to become the normal for this program  
Cycle time was becoming a huge issue  
Current resin supplier was not able/willing to engineer the current grade being used and blamed the issues on the new tools

Application requirements:

33% glass filled nylon 6/6

Minimum requirements on mechanical properties (tensile, flex, izod)

Customer was running out of storage due to the high scrap of this program. They had accumulated over a T/L of scrap from this program alone

**Enters PolySource with a Solution!**

**Consultants**



**PolySource**

**Recommends a Higher Viscosity  
PA6/6**

# **PolySource Recommends a Higher Viscosity PA6/6 Equivalent**



## **Features**

This material meets all the customer/applications requirements

PolySource worked very close with our supplier to find the right material formulation for this sensitive tool.

PolySource provided assistance at each mold trial with the high viscosity PA6/6 sample

**PolySource Finds the Right Recipe!**

# **PolySource** **Recommends a Higher Viscosity** **PA6/6 Equivalent**



## **Advantages**

The high viscosity PA66 (low melt) stopped the drooling and preventive parts from freezing off

Operators were able to drop material in, and focus on other tasks vs. trying to process out the material and battle through the issues

Target Cycle Time was being achieved

No more scrap!

Customer and OEM were beyond excited and a partnership was created!

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

# **PolySource** **Recommends a Higher Viscosity** **PA6/6 Equivalent**



## **Benefits**

Eliminated high scrap rate/parts - \$85,000

More warehouse space (No more scrap parts) - \$\$\$

Improved Cycle Time - \$\$\$

Customer received more tools/new programs from OEM - \$500,000

**PolySource Recommends a > \$585,000 Savings!**