



PolySource

Resin • Solutions • Delivered



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

Who Are We?



Consultants



**Technical Problem
Solving**

Case Study – Medical Device

Customer molding a medical device that supports ankle bone during surgery

PPSU (polyphenylsulfone) is typically used for parts that are being autoclaved multiple times

Parts pre-colored for end-use identification

As a result, customer “comfortable with existing PPSU material”

Has always worked in the past on “other” parts

Current pre-colored PPSU prices at ~\$23.00/lb

HOWEVER...his particular part is used one time and thrown away after surgery. Does not require multiple autoclave cycles.



Lower Cost Material Opportunity!

Consultants →



**Recommending Lower
Cost Material Options**

PolySource Recommends Pre-Colored PSU to Replace Pre-Colored PPSU



Features

Pre-colored PSU (polysulphone) ~ \$9.00/lb. replacing PPSU (polyphenylsulfone) at ~\$23.00/lb.

PolySource worked closely with both the OEM and the molder providing all necessary technical and regulatory information

PolySource provided assistance for mold trial with PSU sample

PSU meets all application requirements

Replace PPSU (\$23.00/lb.) with PSU (\$9.00/lb.)

PolySource Recommends Pre-Colored PSU to Replace Pre-Colored PPSU



Advantages

Material saving of \$14.00/lb.

33,000 of PPSU lbs./yr. X \$23.00/lb = \$759,000

33,000 lbs./yr. X \$9.00/lb. = \$297,000

Lower processing temperatures

Shorter cycle time

In Addition....Processing Cost Savings!

PolySource Recommends Pre-Colored PSU to Replace Pre-Colored PPSU



Benefits

Annual resin savings of **\$462,000!**

Energy savings

Lower melt temperatures....\$\$\$ Savings

Shorter cycle times...\$\$\$ Savings

Increased productivity

More parts/hr. - lower variable costs...\$\$\$ Savings

PolySource Recommends a > \$462,000 Savings!