



PolySource

Resin • Solutions • Delivered



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

Who Are We?



Consultants



**Technical Problem
Solving**



Case Study – Replacing Nylon 6,6 with PolySource Integra POK

A snowmobile company utilized a bushing in a shock-absorber assembly manufactured with nylon 6,6.

HOWEVER...

- The shock-absorber assembly's elastomer seal could be dislodged by ice and rock impact
- After the seal failed, water and ice could get into the shock-absorber mechanism
- Once the seal failed, the bushing absorbed moisture and swelled, altering the interference fit between the shaft of the shock absorber and the I.D. of the bushing
- Warranty issues were costing the customer \$\$\$

Enters PolySource with a Solution!

Consultants



PolySource

**Recommends a Lubricated
30% Glass-Reinforced POK**

PolySource Integra POK 9030 GA6 LX3 BK-4000

PolySource **Recommends a Lubricated 30%** **Glass-Reinforced POK**

PolySource Integra POK 9030 GA6 LX3 BK-4000



Features

- POK offers a lower moisture absorption than nylon 6,6
- POK has lower friction than nylon 6,6
- POK offers higher mechanical strength than nylon 6,6

PolySource Provides Efficiency = Savings!

PolySource **Recommends a Lubricated 30%** **Glass-Reinforced POK**

PolySource Integra POK 9030 GA6 LX3 BK-4000



Advantage

- POK yielded an extra 17 second reduction in the injection molding cycle

In Addition...Processing Cost Savings!

PolySource **Recommends a Lubricated 30%** **Glass-Reinforced POK**

PolySource Integra POK 9030 GA6 LX3 BK-4000



Benefits

OEM estimated the replacement cost at \$55,000-\$60,000 if they did nothing and just provided replacement parts, plus loss of brand value

- Switching to Integra POK saved thousands of dollars compared to just accepting warranty incurred expenses

**PolySource Recommends a Solution Resulting in
Excess of \$100,000 between Warranty Cost Avoidance
& Loss in Brand Value & Customer Goodwill!**