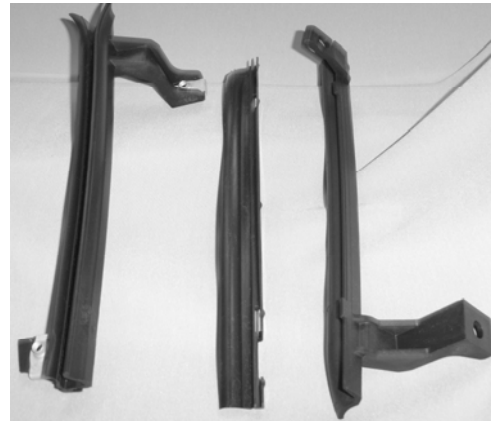


# Precision Plastics, Inc

An Employee Owned Company

## Lower Cost- Through Design

Automotive components must meet stringent engineering standards many with government mandates regarding durability and most importantly safety. In addition the Auto/SUV/Light Truck market presents competitive pressure based on style, function and price. This industry aggressively pursues innovations that help it meet these competitive pressures. The Precision Plastics team is ready to help. Here is an example of one of our engineering success stories.



### The Better Window Guide...

Precision Plastics was contracted to manufacture and assemble window guides for an existing SUV line. The existing retainer included a metal channel, metal attachment points, a rubber inner seal and welded fastening grommets completed with numerous separate assembly operations. The cost per assembly exceeded \$3.00.

As the Precision Plastics Engineering Team prepared for manufacture and assembly, they came up with a few new ideas... Rather than an 7 part metal and rubber assembly why not make the unit entirely of molded plastic, sonic weld the flexible sealing component and the rigid component together... eliminating the need for adhesives while reducing both part count and assembly steps.



Side by side testing of the new design met every standard required by the original design, at 1/3<sup>rd</sup> the cost with less weight *plus* improved fit and seal.

Item	Initial Design	New Design
Part Count	7	4
Metal Parts	5	2
Assembly Steps	5	2
Seal & Fit	Very Good	Excellent
Durability	Very Good	Excellent
Stabilizer Guide	Metal	Plastic
Mounting Bracket Type	Metal	Plastic
Cost per assembly	\$ 3 Plus	Less \$ 1



900 Connexion Way  
Columbia City, Indiana 46725  
260.244.6114

[www.pplastic.com](http://www.pplastic.com)