

Next generation POM

The new Hostaform® S 9364 grade was specially tailored to meet the increasing requirements of automotive engineering and industry. Compared with conventional polyoxymethylene copolymers (POM), this material offers considerably higher impact resistance and weld line strength.

“Polymers with higher impact strength are in high demand for numerous applications today,” explains Wolfgang Wieth, Ticona’s POM Product Marketing Manager for Europe. “That’s why our chemists in Europe and North America have worked on structure modifications, in order to develop a grade with the desired properties.”

The result is Hostaform® S 9364. Compared with other high impact strength modified copolymers, this new polymer has 50 percent greater impact resistance and 100 percent higher weld line strength. All other desirable material properties, such as rigidity and

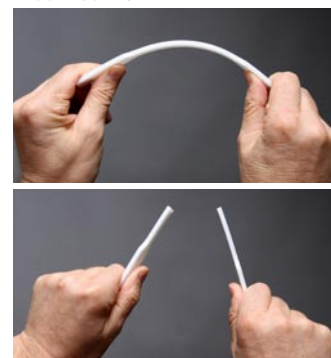
strength over a wide range of temperatures, remain despite the modification.

This unique property profile enables customers to optimize the design of molded parts and reduce part costs. The new grade is suitable for a large number of applications: Fastener elements that require outstanding chemical resistance, for example, or industrial applications that demand robust mechanical properties. Hostaform® S 9364 is an ideal candidate, even for conveyor systems requiring not only high impact strength but also outstanding friction and wear characteristics as well as dimensional stability.

New: Hostaform® S 9364



Conventional TPU impact modified POM



New competition for metals

With its superior mechanical characteristics, the new long glass fiber reinforced Hostaform® POM grade outperforms other reinforced thermoplastics. This modified polyacetal copolymer was specifically developed as a replacement for metals or other polymers such as polyamides in industrial and household applications.

“Designers and engineers can now significantly improve the performance of composite parts with the new long glass fiber reinforced Hostaform® LGC90-QX. This is due to previously unmatched high impact resistance in combination with inherently good sliding properties and abrasion resistance as well as excellent resistance to fuels and

other chemical substances,” explains Jason Lipke, POM Product Marketing Manager for America.

So now there’s a new engineering polymer with enormous potential available to processors and OEMs for the manufacture of seat systems in vehicle production or for functional components

in household appliances. Substituting metals with the polymer can reduce production costs considerably, as finishing operations are eliminated and required components can be incorporated in a single processing step. Moreover, the material offers developers tremendous design freedom. It is easily colored and has a good surface finish.