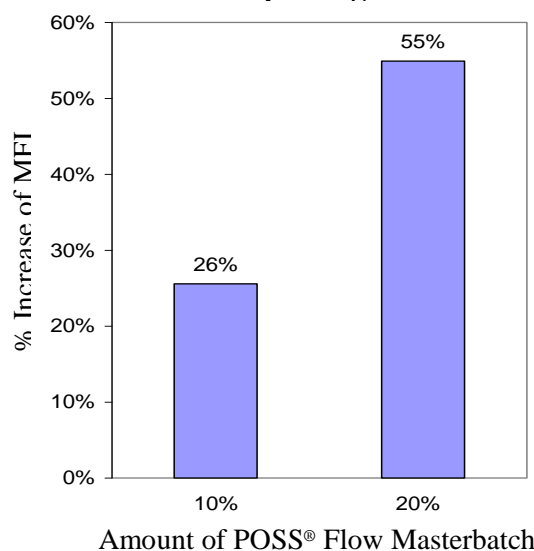


### Hybrid Plastics Introduces POSS® Flow Masterbatch To Speed and Enhance Polyamide Processing

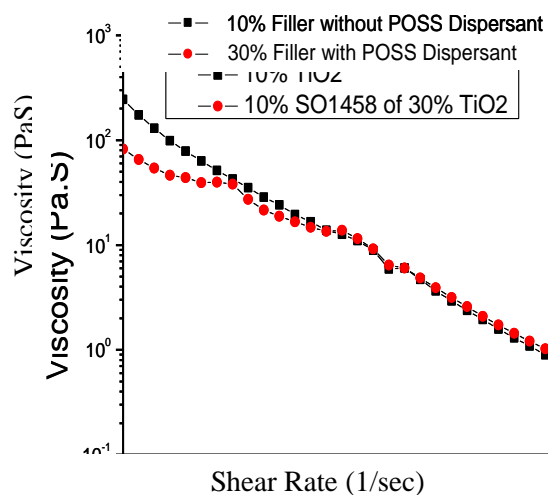
Hattiesburg, MS: POSS® Flow masterbatches show tremendous success in reducing the melt viscosity of a variety of injection molded and extruded resins. Hybrid Plastics now introduces such a solution for polyamide (nylon) polymers.

Polyamide POSS® Flow is a pellet masterbatch incorporating POSS® that can be used directly in your process or manufacturing stream. For injection molding applications, benefits include decreased molding pressures and increased flow for filling intricate and thin-walled parts. This leads to faster cycle times and less scrap. For extrusion applications, POSS® Flow dramatically decreases screw torque, allowing increased extrusion rates.

#### POSS® Flow – Improving Melt Flow Index



#### POSS® Dispersant – Increasing Filler Loading



**Polyamide POSS® Flow masterbatch added to a high molecular weight, unfilled polyamide 6 increases MFI. POSS Flow with POSS® Dispersant decreases the melt viscosity of filled polymers while allowing up to three times as much filler to be used.**

POSS® [Polyhedral Oligomeric Silsesquioxanes] is a revolutionary new Nanotechnology based on silicon-derived building blocks that provide nanometer-scale control to dramatically improve the thermal and mechanical properties of traditional polymers while offering easy incorporation using existing manufacturing protocols. These compounds have an average diameter of just 1.5 nanometers, or billionth of a meter. POSS® nanomaterials can be used both as direct replacements for hydrocarbon based materials or as low-density performance additives to traditional plastics. They release no VOCs, and, thereby, produce no odor or air pollution. They are biocompatible, recyclable, non-flammable, and competitively priced with traditional polymer feedstocks. POSS® Nanostructured® materials can be readily incorporated into virtually any existing polymer system through blending, grafting or copolymerization.

These POSS<sup>®</sup> nanobuilding-blocks were hailed by R&D magazine as one of the 100 globally most technologically significant new products for the year 2000. Hybrid Plastics was one of five finalists in Small Times Magazine's *2002 Best of Small Tech Award*. In December 2005, a *Presidential Determination* deemed POSS<sup>®</sup> Nanotechnology to be in the strategic national interest of the United States.

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