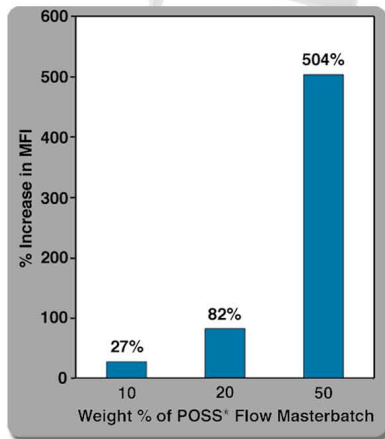


Hybrid Plastics®

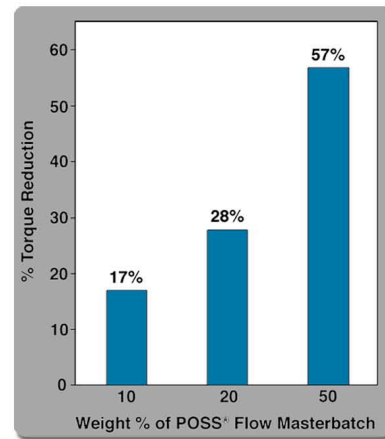
Superior Technology for Superior Products

PEEK POSS® Flow Masterbatch

POSS® Flow masterbatches have shown tremendous success in reducing the melt viscosity of a variety of high temperature, difficult to process, thermoplastics. Hybrid Plastics offers such a solution for PEEK. PEEK POSS® Flow is a pellet masterbatch incorporating POSS® Flow in a PEEK carrier that can be used directly in your process or manufacturing stream. For injection molding applications, users will benefit from 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 will dramatically decrease screw torque, allowing for an increase in extrusion rate.



Increasing Melt Flow Index with POSS® Flow



Reducing Screw Torque with POSS® Flow

Typical addition levels are 10 to 20%. Adding 20% to a high molecular weight PEEK nearly doubled the MFI and decreased extrusion torque by 28%. At loading levels of up to 50%, there is no appreciable decrease in mechanical properties, including modulus, HDT and elongation to break. PEEK POSS® Flow is especially effective in filled systems. POSS® coats and interacts with most fillers (glass, mineral, clay, etc.), improving dispersion and significantly decreasing melt viscosity.

PHYSICAL PROPERTIES

Product name: PEEK POSS® Flow
Product number: PK6U58.01
Color: Opaque, light brown color
Density: 1.27 g/cm³
Melt flow index: approx. 550 g/10 min
(380 °C / 5 kg)
Usage level: 10 to 50 wt-%



WARRANTY

The information contained herein is believed to be accurate and reliable. However, the user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics warrants that its products will meet specifications, but not merchantability or fitness for use.

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