

# HIGH PERFORMANCE POLYMERS

Concurrent Engineering

Mold Design and Manufacturing

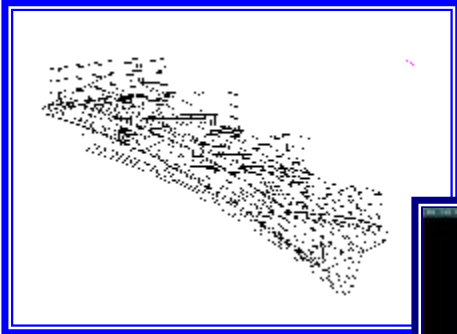
Prototyping and Injection Molding Production

**COMPONENT:** AXIAL DIFFUSER FOR NEW GENERATION TURBO-COMPRESSOR

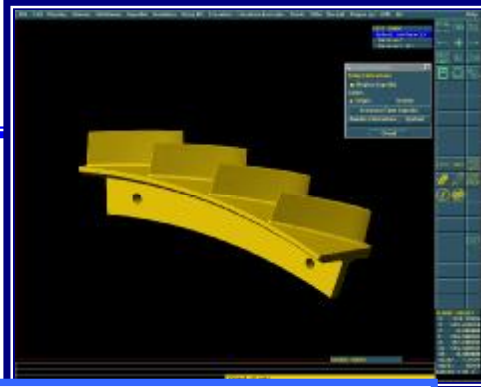
**MATERIAL:** PEEK 30% CARBON FIBER

**DIMENSION:** 126mm x 35mm x 31mm

**TECHNICAL FEATURES:** RESISTANCE AT 250°C FOR 20000 HOURS

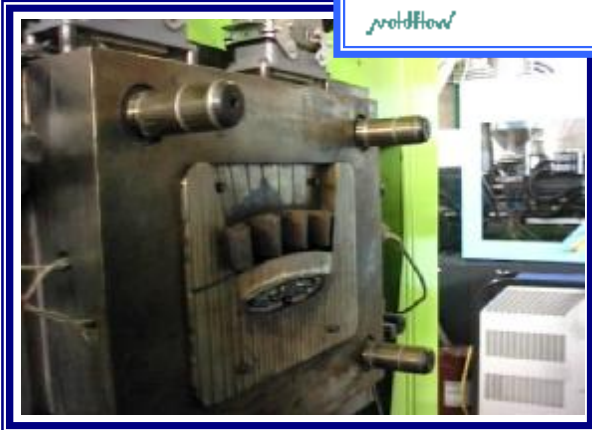
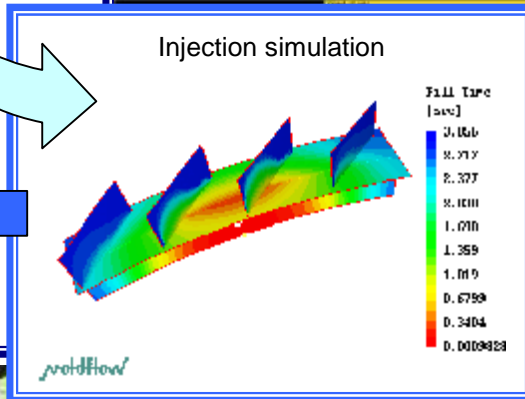


CAE – CAD  
Codesign & Development



## PROPERTIES & ADVANTAGES OF PEEK :

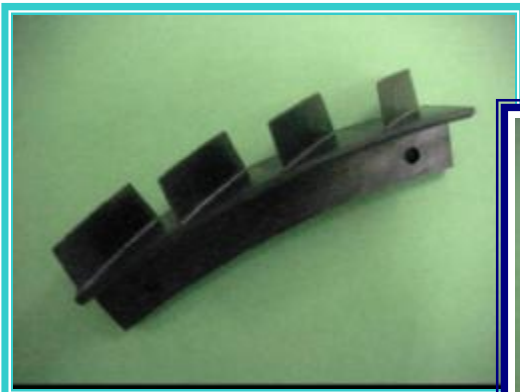
- VERY HIGH CONTINUOUS WORKING TEMPERATURE
- VERY HIGH HEAT DISTORTION TEMPERATURE
- EXCEPTIONAL CHEMICAL RESISTANCE
- EXCELLENT HYDROLYSIS RESISTANCE
- GOOD RADIATION RESISTANCE
- OUTSTANDING WEAR AND ABRASION RESISTANCE
- LOW SMOKE AND TOXIC GAS EMISSION



Mold manufacturing & industrialisation



Injection molding prototyping and production



First production batch



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