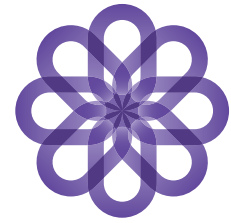




Case Study: Value Engineering



OnePlastics Group™

Moulding the future

Problem

The customer was originally using a casing for a hard disk drive. The casing structure was primarily made from zinc casting. This represented a significant cost to the customer, and a limiting design parameter because of excess weight in their systems.

Challenge:

Since its original design several years earlier, a lot of analysis was completed and none of the engineered plastic materials available on the market were strong enough to support the application, due to the narrow wall sections involved.

Solution:

While no materials were currently available, the Protech team designed a brand new material with the mechanical characteristics to meet the design requirements. We teamed up with a global resin compounder and a brand new material was born. The material was a PC with a glass fibre fill, and with added carbon for the additional stiffness.

Result:

The result now delivers:

- Fully plastic product
- 1/4 of the original weight
- 50% reduction in NRE costs
- Delivered on ESD requirements

20% LOWER
PER UNIT COST

