



CASE STUDY

New product design, assessment and review (Plastics)

The task

New product design in plastics is often centred on the ‘old design in metals’ (with minor changes made to allow the use of plastics). This misses out on the potential benefits of combining functions and operations in plastic components.

Tangram has been commissioned by design companies and customers to carry out new product design, assessment and review to ensure that designs utilise the potential benefits of the polymers and the forming processes. As product designers for over 20 years, Tangram has unique experience in developing designs for polymers to maximise the benefits.

What we did

Tangram has been commissioned by design houses and manufacturers to carry out new product design, assessment and review.

The service can be as simple as a final review of an existing or new design to validate that the designer has chosen and used the materials properly. This can take the form of a low cost design assessment and review taking 1 to 2 days for many components. Many designers find this useful as a final validation of the design.

Alternatively, Tangram can carry out the full product design from the basic Product Design Specification through to final product design. Using our unrivalled contacts in the plastics industry we can produce full design drawings, product visualisation services and full tooling drawings for tooling production.

Tangram can also assist clients to specify production methods and locate suitable polymer processors for final series production of the product if required.

These services have allowed customers to ensure that materials have been chosen and used correctly and that designs meet the customers requirements for the minimum cost.

The benefits

- Low-cost design and materials selection validation service.
- Practical approach to design and manufacturing assessment.
- Allows clients to achieve the best results for materials substitution exercises through combining functions and eliminating operations.
- One-stop shop for plastics product design services.
- Consistent interface with designers and customers.

More details?

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