Intelligent Material Substitution
E.G. FOR TOWER, FOUNDATION AND NACELLE


PolyTech offers all these moulding techniques at a high-volume production level and have unmatched expertise in combining materials, adding built-in features etc. to create products and solutions that are safe, reliable, and cost-effective.

We call it Intelligent Material Substitution - if you can think it, we can do it!

SUMMARY OF ADVANTAGES
POLYTECH INTELLIGENT MATERIAL SUBSTITUTION
✓ Documented quality and performance with own test laboratory
✓ Low cost
✓ No corrosion
✓ No sharp or exposed edges
✓ High strength and low weight
✓ Low or no maintenance required
✓ No grounding required

What is your product challenge?

Cost-out?
Handling and mounting?
Weight?
HSE?
Corrosion?
Logistics and transportation?

More information on PolyTech Intelligent Material Substitution
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See what we can do at www.poly-tech.dk
Getting there - fast! If you team up with PolyTech, you have access to a substantial R&D division and cooperate with a dedicated group of designers, material specialists and engineers, backed up by a state-of-the-art prototype setup, inhouse test center and high volume production facilities.

Intelligent material substitution - unlimited applications

Polyurethane can fit any desired shape or form and fulfill any function. We can redesign existing products in PU with the objective of reducing cost, improve durability, eliminate HSE hazards, reduce weight, strengthen resistance, enhance flexibility, decrease exposure, boost adhesion qualities, etc.

Unmatched prototype capabilities

Holistic solution development is PolyTech’s hallmark. We are not designers of components - we are designers of solutions that integrate seamlessly with our customers’ requirements.

With all relevant competences and processes inhouse, the time from prototype to high volume serial production can be very short if required. We can supply the full package ready for implementation and a remarkably short time-to-market.

We offer 3D printed items to give a useful and immediate impression of form and functionality.

Documented testing

Choice of material is crucial. So, prior to the design phase, PolyTech conducts material tests in our own test center, which is accredited according to ISO 17025.

By simulating the most demanding conditions in the test center, designs can be tweaked and improved until reaching customer specification.

We have a wide range of tests available:

- Tensile test
  -70°C - +300°C
- Dielectric testing
- UV Xenon
- Salt fog chamber
- Climate chamber
  -40°C - +60°C
- DSC
  -80°C - +400°C
- Rain Erosion test
- Colour test
- Gloss test
- Custom material tests
- And all required combinations of the above

One of PolyTech’s 3D printers offering a build volume of 600 x 600 x 600 mm.

Tower door produced with rapid fibre moulding technology. The door is lightweight, rigid, non-corrosive and heat-resistant. Colour, built-in features, size and shape by choice.