

**Category:** Material, Coating and Process

**Reference:** TD-DE-1062

### PolyCube

PolyCube is a satellite structure made of space-grade polymer using injection molding technology

- The very first Satellite structure for the so called CubeSat, made of polymer with a dimension of 100×100×113,5 mm
- It will be used as a basic structure for the satellite components like electronics that will be sent into space
- Lighter, cheaper and more robust compared to those on the market
- It has an intelligent Design and does not require extensive assembly
- Universities, research institutes, schools, for workshops and trainings



### Innovative Aspects:

- save weight
- reduce the high manufacturing costs
- fast production
- enabling direct integration of features as well as technical and sensory
- solutions in the injection molding design

### Application Areas:

Due to the series production, there is a fast delivery with low manufacturing costs for large projects where large numbers of CubeSats or similar are placed in orbit, such as "Starlink".

The design can be customized since the product is inexpensive, compared to aluminum structure, is suitable for pupils and students to familiarize themselves with satellite technology

