



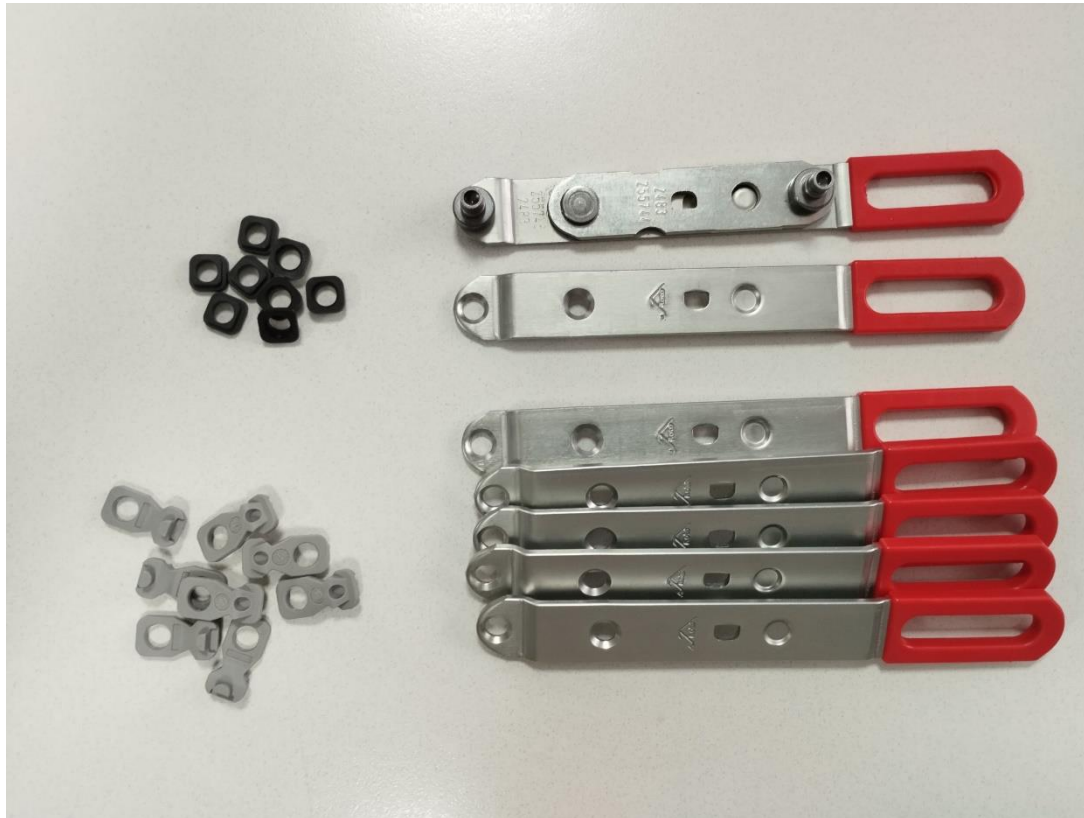
# PlastEverest

## Plastics Industry

LIST OF REFERENCES  
2024/03



# Door & Window hardware plastic components



- TPU overmoulding onto metal insert
- Part and process approval according to PPAP
- Dimension control with GOM scanner

# Spare parts for medical chairs and beds



- PA6
- English Customer

# Blister for automatic warehouse system with unique ID



- POM
- Unique ID
- Automatised In-line printing

# POS store organisation trays



- HIPS
- High recycled content
- Assembling with magnets

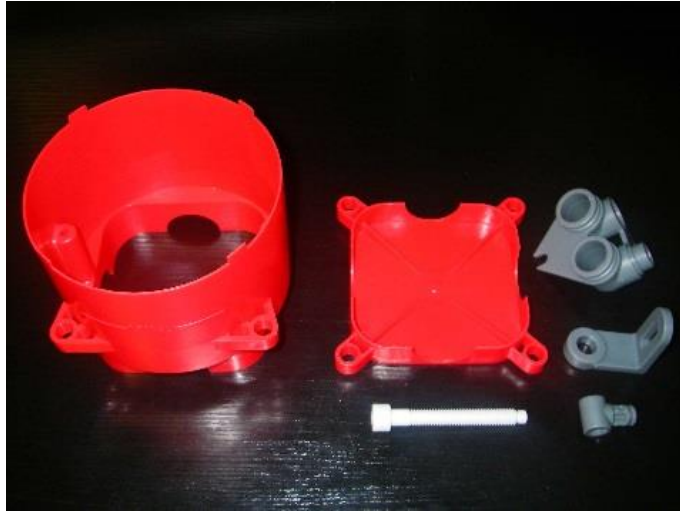


# Electric housing moulding and complete assembling



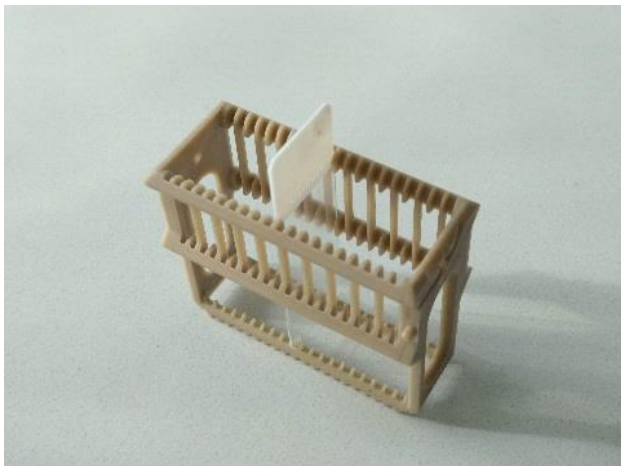
- After injection moulding we made complete assembling and testing of the device
- Electric components assembling
- Software uploading
- Decorative 3D sticker
- QR codes are used for product unique identification
- Testing

# Fittings, plastic parts from PA, HIPS, PP and PET material



- PlastEverest assisted client's design, our proposal resulted material savings, plastic injection compatibility
- It is always useful to involve part producer and mould maker at the early stage of the design if design belongs to the customer

# Medical application - ABS



- Medical application, rack of tissues slides for high definition picture scanner
- Production, packing according to clients specification
- Dimensions, and surface finish of part needed relative high precision so that part become compatible with the actual feeding and robot handling unit
- Mould with floating core and of special steel to increase cooling
- 2<sup>nd</sup> version (beige) is under development from 07/2018 and needs reverse engineering



# Medical application - PP-R



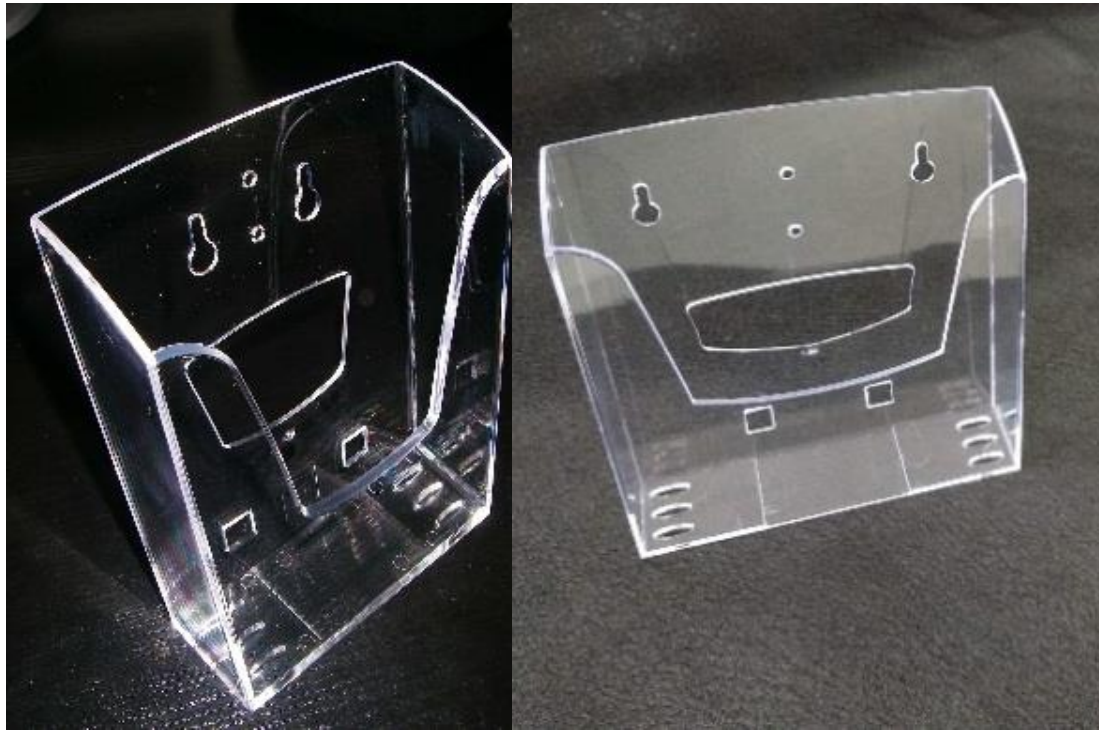
- Medical application, sampling pot of 92 holes
- Production, packing according to clients specification
- Every piece passed quality checking procedure

# IML – In Mould Labelling – HIPS



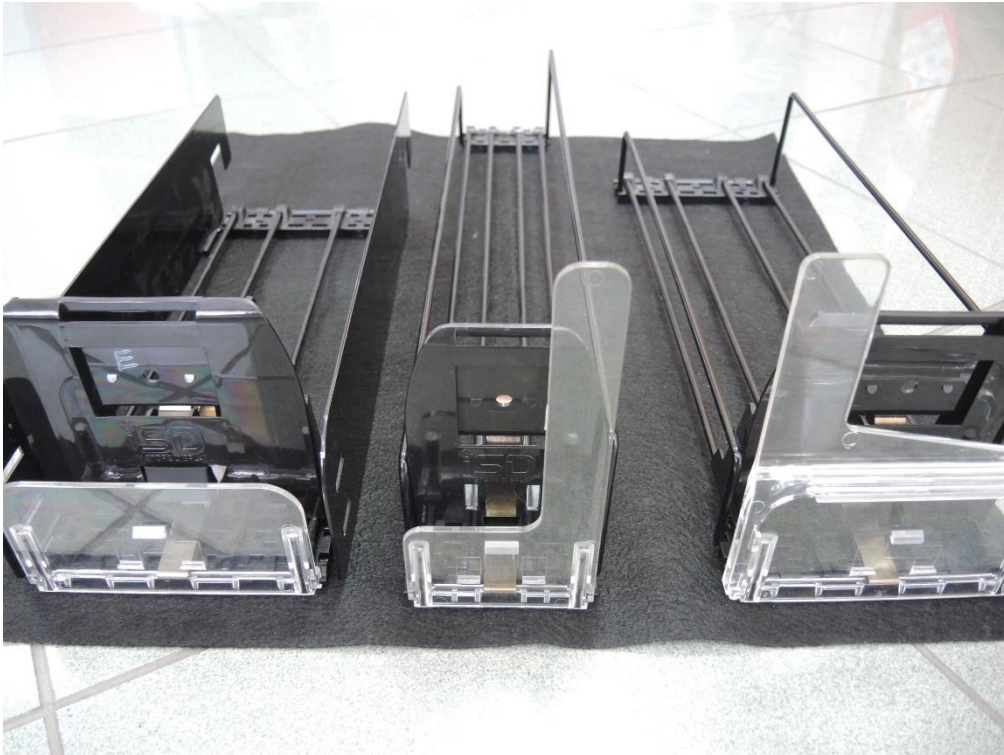
- Waiter tray for restaurants and bars
- Mantle foil is digital or screen printed
- Anti-slippery foil insert serves to avoid unwanted movements of glasses and bottles
- Custom made colours

# Leaflet holder of decorative outlook, made of GPPS



- Mould concept was proposal by PlastEverest, resulting compact mould and simple operation
- Parting lines relocation resulted better aspect and quality
- Decorative, mirror polished surface finish and big wall thickness needs careful production

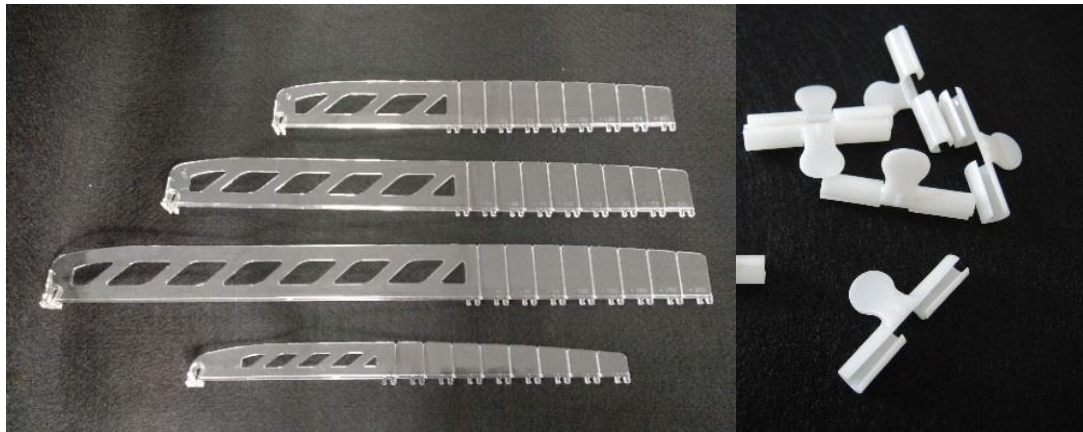
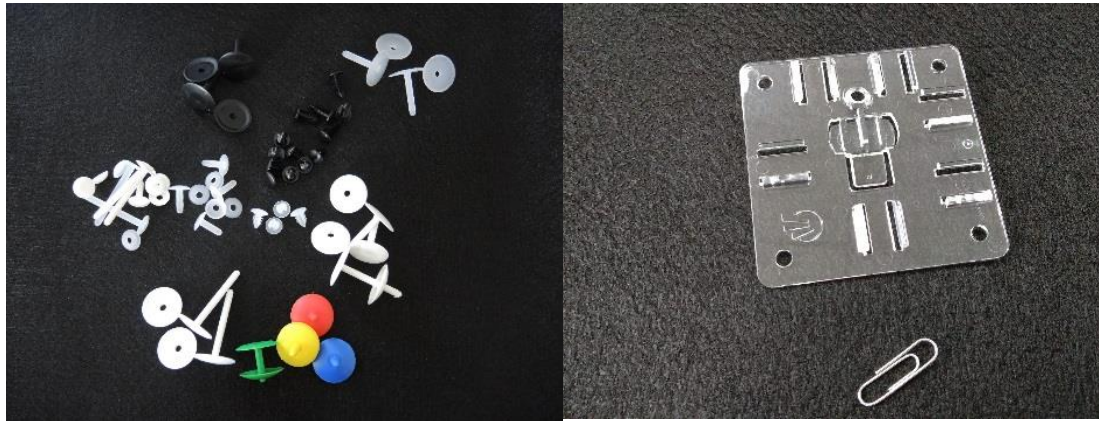
# POS – automatic pushers for supermarkets



- 10 tools harmonisation challenge
- Optimisation was required to harmonise functional requirements of each components
- Materials were selected after testing



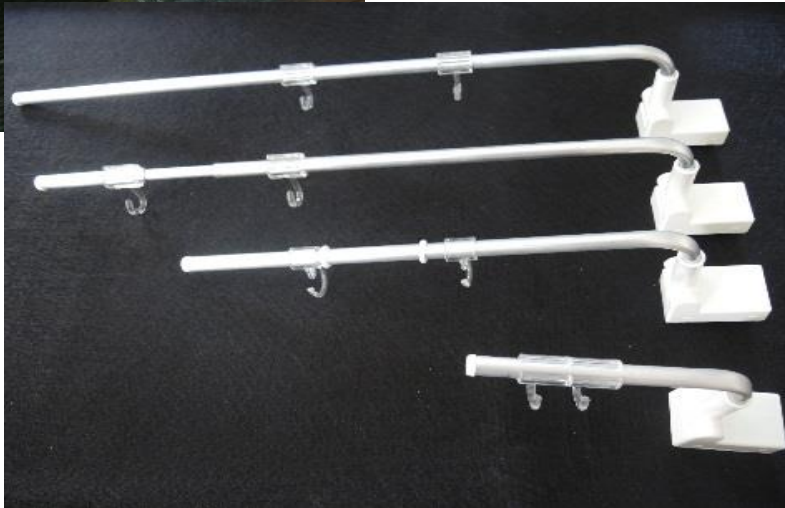
# Other POS applications - POM, PC



- Interchangeable inserts
- Yearly production quantity rounds about 20.000 to 5.000.000
- Part functionality, and technical specifications (snap in force should be x KN force) determined the moulding concept, material selection, mould optimisation
- Product and mould approval based on operation force measurements of products
- Short cycle times and high cycle production was basic parameter of the project
- Some of the moulds have reached 5.000.000 operation cycles



# POS – Point of Sale marketing applications - ABS



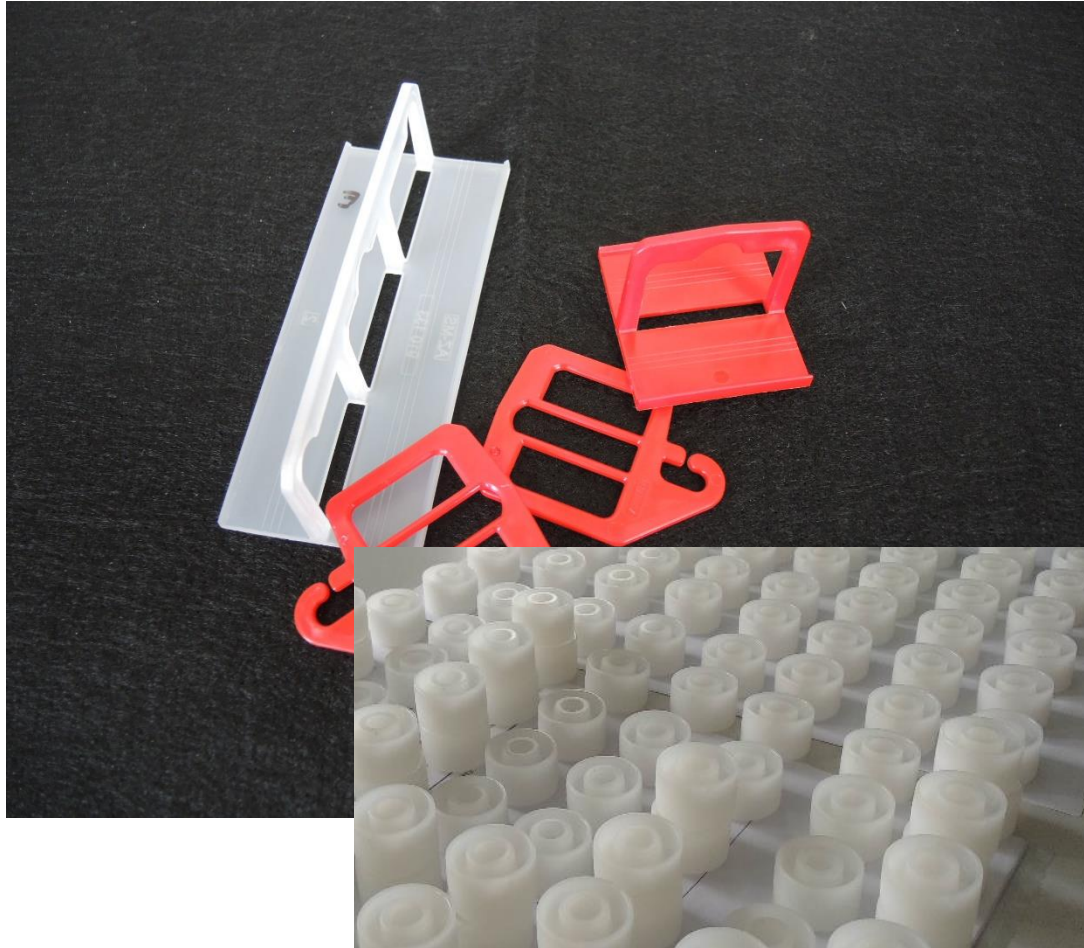
- Composed of 11 parts, magnets, silicon part imported from far-east
- Plastic injection moulds of automatic operation from China, excellent construction and operation experience over more than 400.000 cycles
- One of the moulds is 3 plate mould to make complex movements, automatic STEP motor unscrewing mechanism, increased core cooling thanks to specific steel components
- Cooperating partner from Hungary provides metallic components
- 8 week after final drawings first serials were started

# Housing for Warehouse Robot, indication lamp cover and sensor holder



- Optimal light reflection needed material experiments
- Bras Inset moulding on Sensor Holder component

# Automatic warehouse – blisters and rollers



- Rollers for conveyors
- Tolerance of H8 on bore for axcel
- Blisters are produced millions/year

# Tablet dispenser – food packing



- PlastEverest design – tooling – production
- Older product malfunction must be improved
- Strict hygienic prescriptions are applied during production



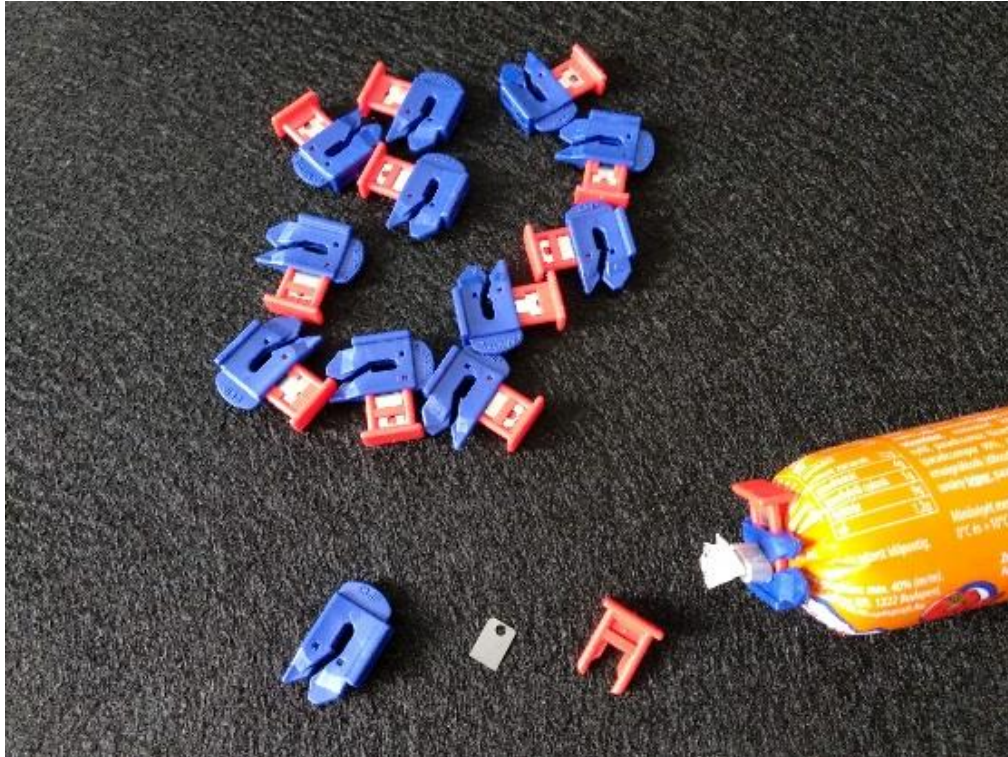
# Packing for food industry - PP



- Remake of 5 kinds of tablets packing including tooling
- Range of packaging products rationalization, functional improvement
- PlastEverest Design – Tooling – Production
- Older product malfunction must be improved
- Strict higienic prescriptions are applied during production



# Innovative packing for food industry - HIPS



- Only input was Inventor's idea
- Engineering design was made by PlastEverest
- 3D printing with SLS technology by 3<sup>rd</sup> party service provider was involved in development phase
- Food packing innovation – patent protection
- Small precise injection 8x0,2g (8 cavity)
- Functional requirements (cutting, snap in forces of 3 stage operation, easy assembling of 3 components and with food packing material, re-close of food packing) was achieved after 2<sup>nd</sup> Injection Test and mould fine tuning

# Caps with complex functionalities



- PlastEverest design – tooling – production
- Older product malfunction must be improved
- Strict higienic prescriptions are applied during production

# Box for higienic products – pad printed



- Strict higienic prescriptions are applied during production
- Sampling in accordance to Control Plan
- Traceable production



# Plastic Anchor for Fixing of Exthermal Thermal Insulation



- Design, production, product performance (load resistance) are in accordance to EU and Hungarian regulations
- Development, 3D design was made by PlastEverest
- Mould: 6 cavities and relocatable inserts for 5 different length of anchors

# Logistics tray for Rosenberger Automotive assembling line - HIPS



- 3D model of the part was made by PlastEverest given the physical samples provided by buyer



# Housing for electric appliances and other parts used in electronic systems - ABS, PC



# Fence system - PA6



- High stiffness, UV-resistance made of PA6

# 3D printing



- 3D printed parts used for:
- Product design aids
- Product test
- Functional test
- JIG and unique part production