

# InduPlast

PLASTICOS DE INGENIERIA

SPECIALISTS IN PLASTIC MACHINING

MACHINED  
PARTS

FUSION 3D  
PRINTING

MACHINERY  
GUARDS

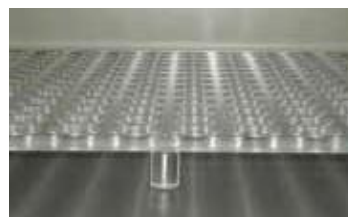
## FUSION 3D PRINTING



## MACHINING PROCESSES



## MACHINERY GUARDS





**TAILORES SOLUTIONS IN  
PLASTIC MACHINING**

TECHNICAL ADVICE FOR YOUR APPLICATIONS

**InduPlast**

Founded in 2004 as a result of the market's need for technical advice in order to choose the best product according to its application. We provide improvements in industrial processes by replacing conventional materials with engineering plastics.

**JOURNEY**

Over the years, we have collaborated with R&D departments in the main production sectors: food, iron and steel, textiles, pharmaceuticals, chemicals, agricultural, packaging, electrical, electronics, automotive, construction, among others.

**KNOWLEDGE**

We have broad technical and functional knowledge that we put at your disposal for the development and implementation of your projects.

**INNOVATION**

We have the best machining professionals, who make it possible to produce any type of part in engineering plastics.

Due the demand from our customers for parts in different materials, we have extended the production processes in order to offer machining in metals and elastomers.

With the incorporation of the **HP FUSION 3D printer**, we make the most ambitious projects of Engineering Departments a reality.

**MACHINING CENTERS**

LATHES · CNC · MILLING MACHINES · PANTOGRAPHS  
IFUSION 3D PRINTING



MACHINED PART

POLYETHYLENE (DESLIDUR®) - POLYPROPYLENE (PROPIL®) PVC - POM (DELIRIN®) - PETP (ARNITE®) - PTFE (TEFLON®) PA6 (NYLON®) - PEEK - PMMA (METHACRYLATE)



TECHNICAL ADVICE

THERMAL BEHAVIOUR OF POLYMERS



DIN AND COMMERCIAL NOMENCLATURE

THERMOPLASTICS	DIN ABBREVIATION	COMMERCIAL NOMENCLATURES
Polyolefins Polypropylene, Polyethylene	PP PE	®Polypropylene - Deslidur®
Polyvinyl chloride	PVC	Trovidur ®
Polyamides	PA	Nylon ®
Polyacetals	POM	Delrin ®
Polyesters	PET PETG PC	Arnite ® Vivak ® Makrolon®
Polyfluorinates	PTFE	Teflón ®
Polysulfons	PVDF	Polysor ®
Phenylene polysulfides	PSU	Miss PSU ®
Polyeterktones	PPS PEEK	Tectron ® Tecapeek ®
Polymethacrylates	PMMA	Perspex ®

MAIN PROPERTIES OF THE MOST COMMON PLASTICS

PE:	High impact resistance. Resistant to low temperatures. Rigid. Low friction coefficient. FDA.
PP:	Very rigid. Resistant to impact and chemical products. Lightweight.
POM:	High hardness. Good anti-friction properties. Dimensional stability. Almost no water absorption.
PA:	Good cushioning. Ductile. Combinable with other thermoplastics.
PET	Excellent dimensional stability. High rigidity and hardness. Low water absorption. Resistance to chemical products..
PVC:	Ductile. Tough. Versatile. Working temperature -20° + 75°. Resistance to chemical attack.
PTFE:	Mouldable. Thermal, electrical and acoustic insulation. High resistance to chemical products.
PVDF:	Excellent behaviour against chemical attack at high temperatures. UV-resistant. .
PSU:	Works at high temperature (160°). Resistant to hydrolysis and radiation. High dimensional stability.
PPS:	Working temperature 180°. Good chemical compatibility. Perfect for sterilisation. Very high resistance to impact.
PEEK:	High dimensional stability. High working temperature (260°). Abrasion and chemical resistance.
PC:	Low weight. High impact resistance. Tolerance to high temperatures. Transparency.
PETG:	Excellent properties for thermoforming. Suitable for contact with food (FDA). Good impact resistance.
PMMA	High transparency. Excellent surface. Easy to handle. Thermoformable. Good bonding.

# MACHINERY GUARDS

We produce various guards and parts in  
POLYCARBONATE - PETG - METHACRYLATE

Bonding, cold bending and vacuum thermoforming.

**Your projects made reality.**

Advice on materials and processes.



## TECHNICAL ADVICE ON MATERIALS

POLYCARBONATE - PC	Machinery guards, self-vending machine guards, covers, safety enclosures, insulation, lampshades.	High impact resistance. It maintains its properties at high temperatures up to 120°C. Rigidity. Cold bending.
POLYCARBONATE - UV	Same applications as PC + solar radiation filter.	Same characteristics + UV protection. Recommended for outdoor applications.
COPOLIESTER - PETG	Machinery guards, display stands, furniture, thermoformed parts.	Suitable for the food industry. Guards for machinery with FDA certificate. Good impact resistance. Easy handling for machining and thermoforming. Resistant to temperatures up to 63°C.
METHACRYLATE - PMMA	Visors, display stands, commercial furniture, signage.	High transparency. Alternative to glass. 10 times lighter. Good weather resistance. Easy to handle for machining and thermoforming.



## MACHINING WITH ELASTOMERS

Your workpieces for turning and milling in all types of rubber and derivatives:  
**RUBBER NBR - SBR - SILICONE - POLYURETHANE.**

- SEALS
- BEARINGS WITH INSERTS
- VULCANISING OF ROLLERS

Ask us for information

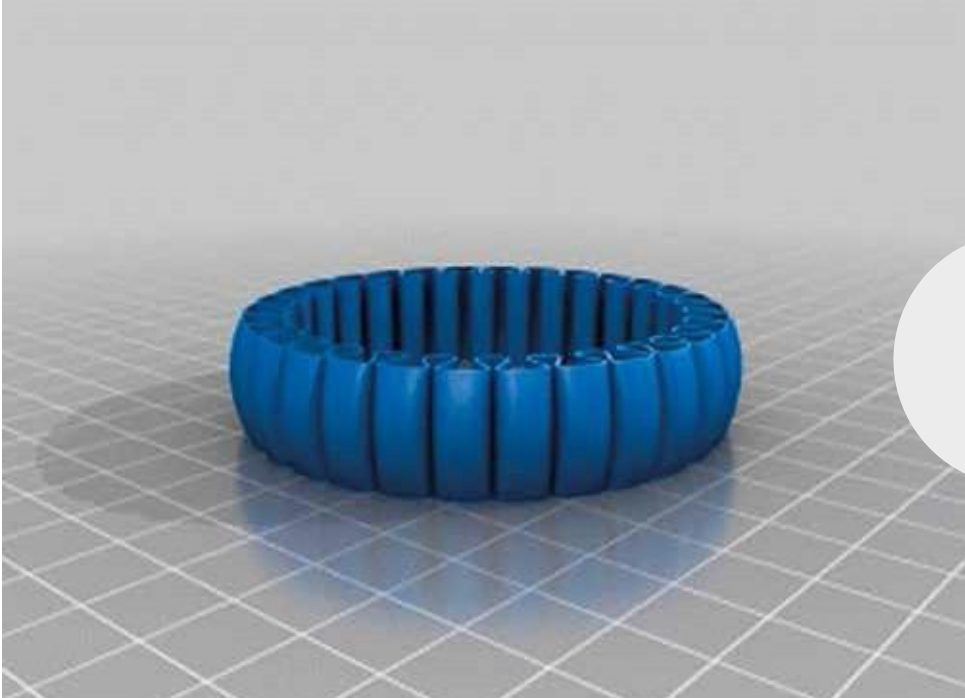


## SEMI-FINISHED PRODUCTS

- PLATES - RODS - TUBES – HOLLOW BARS



MATERIAL CUT TO SIZE



# FUSION 3D PRINTING

-THE ALTERNATIVE SOLUTION-



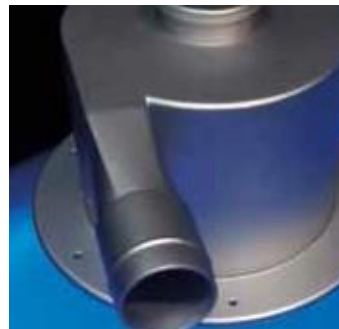
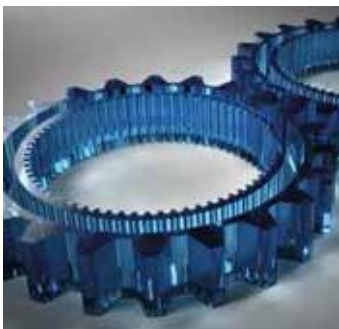
Committed to the most innovative technologies

FUSION 3D ADDITIVE MANUFACTURING WHICH ENABLES DESIGN WITHOUT GEOMETRICAL LIMITS. RESULTS 100% IN COMPLIANCE WITH REQUIRED DIMENSIONS.

PARTS FULLY FUNCTIONAL IN OPTIMAL TIMESCALES.

POLISHED FINISHES.  
POSSIBILITY OF PAINTING WITH SPECTACULAR RESULTS.

## 3D PRINTING IS THE ALTERNATIVE



Ask us for information 



# InduPlast

PLASTICOS DE INGENIERIA

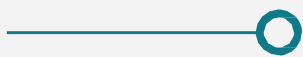
TAILORED SOLUTIONS



Ask us  
for information



## SPECIALISTS IN PLASTIC MACHINING




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FOOD MACHINERY · PACKAGING · GOODS TRANSPORT LINES  
TECHNICAL ENGINEERING · CHEMICAL AND LABORATORIES · AUTOMOTIVE · ELECTRONICS · ELECTRICAL