



**THE BEST WAY  
TO INJECT YOUR IDEAS**

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The next generation of  
plastic packaging

# BEYOND THE PARADIGM BETWEEN FORM AND SUBSTANCE

## Pk

### Packaging

Pallets & Boxes for delivery,  
storage and automated warehouse



# We believe in a sustainable future, and the future need of less plastic in the environment

At MPS srl, thanks also to our customers, we have managed for several years to achieve a 100% CIRCULAR ECONOMY.

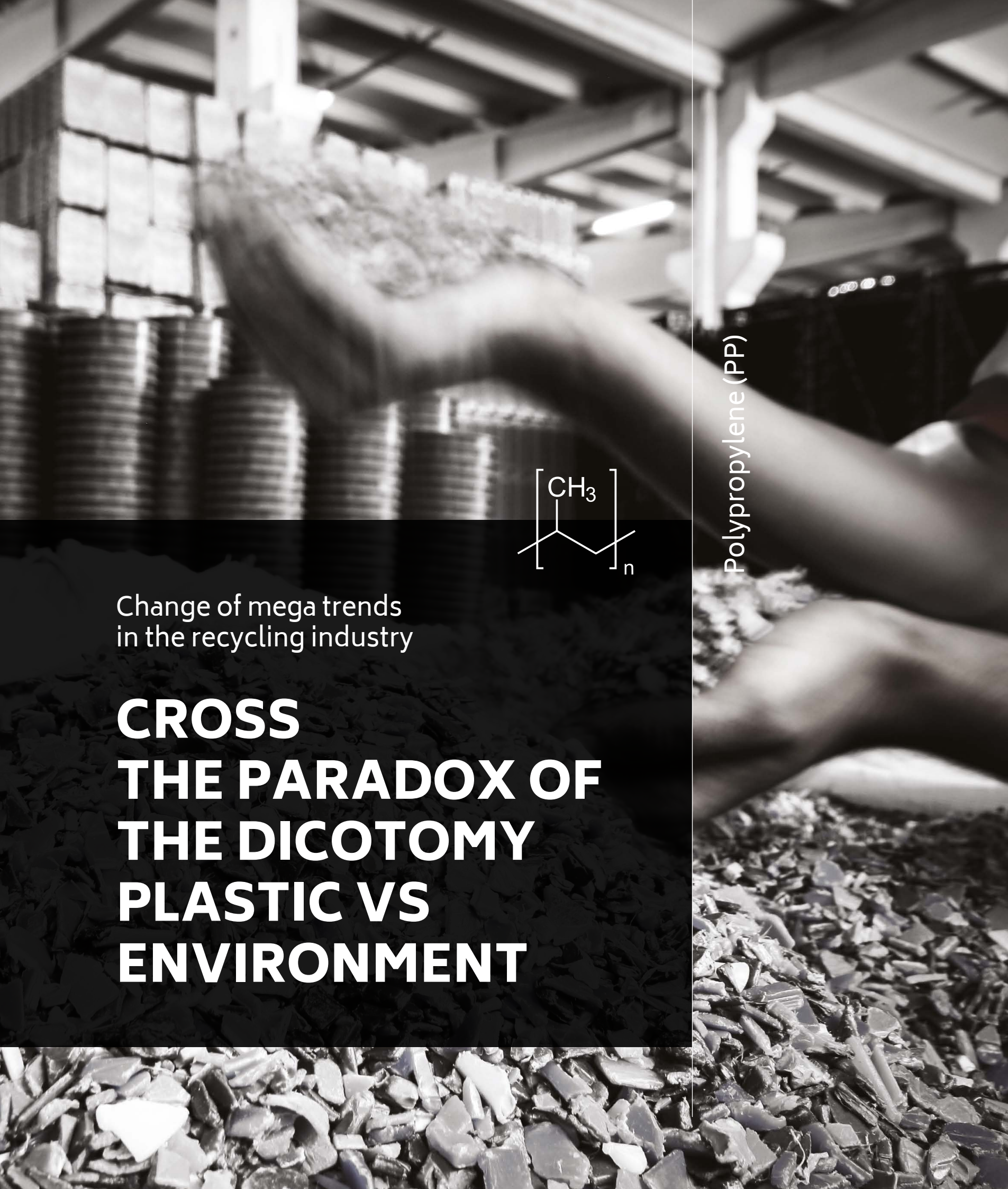
The new technologies, the consolidated partnerships with important companies operating in the thermoplastic material regeneration sector and the acquired know-how, allow us to use the REGENERATED thermoplastic material and to create products with performances that are completely similar to those made with virgin plastic raw materials.

ECONOMIC and especially ENVIRONMENTAL advantages are the results of our production strategy.

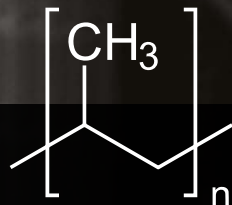
MPS srl  
#webeleaveinthefuture







Polypropylene (PP)



Change of mega trends  
in the recycling industry

# CROSS THE PARADOX OF THE DICOTOMY PLASTIC VS ENVIRONMENT

For the production of our recycled plastic products, at MPS srl we use POLYPROPYLENE (PP), a thermoplastic material (free of fillers) which is ideal for recycling due to its molecular structure.

Thanks to new source selection technologies, today we can use a 95% pure regenerated PP.

## Cs

### Case study

MPS srl has recently developed a project for the supply of 450,000 technical containers (totes) in regenerated PP.

The choice of regenerated PP was made after comparing the same manufactured product made of virgin PP. Chemical analyzes, laboratory tests, fatigue tests and aging tests guided the choice made.

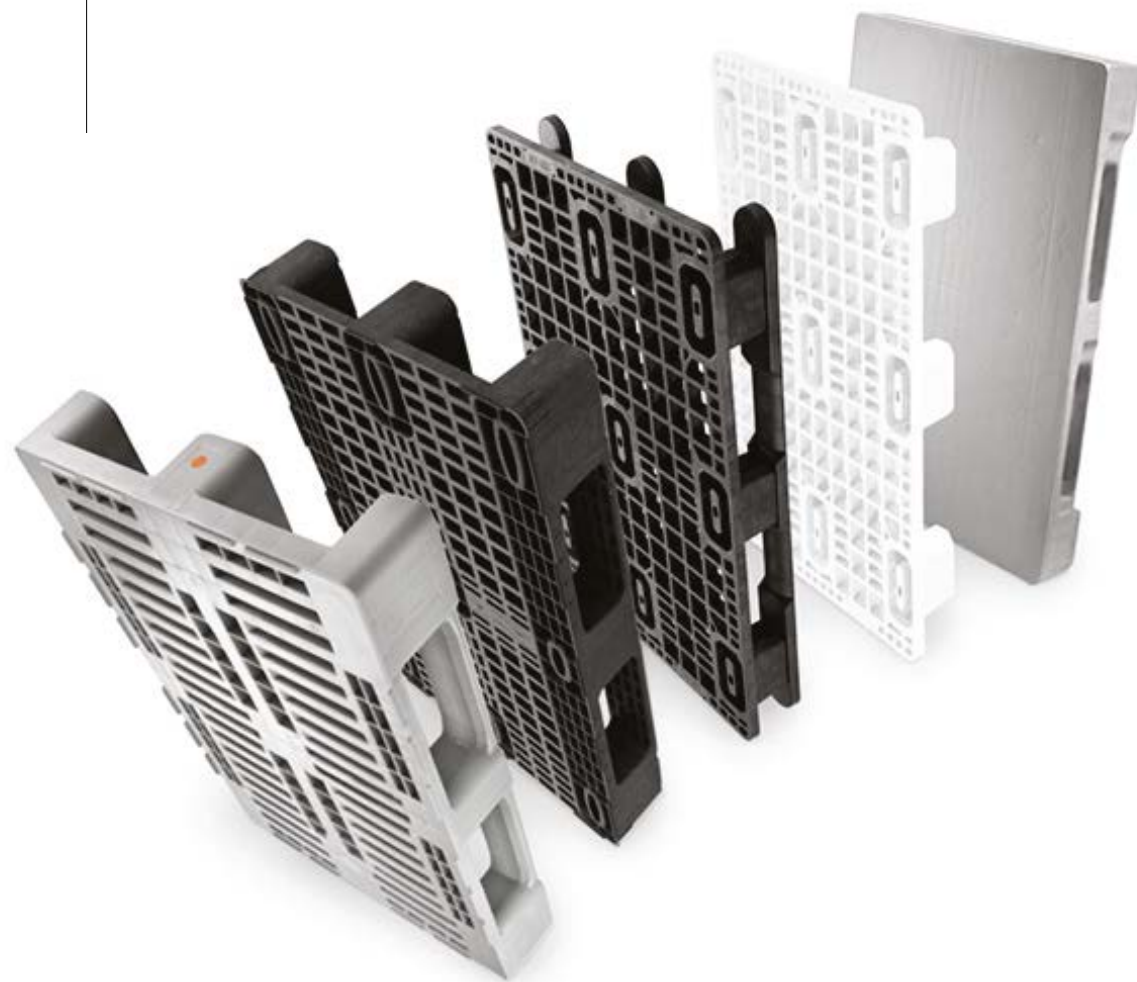
MPS srl, in collaboration with the manufacturer of the regenerated raw material, has developed a specific compound for this application.

Thanks to the know-how acquired, the close collaboration with the suppliers of recycled material, MPS srl is today one of the leading European players in the production of recycled plastic containers.

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Recycled Plastic  
Packaging

The world is changing,  
turn a problem into an  
opportunity



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PACKAGING DIVISION

**St**

Storage Tote

Plastic Boxes for delivery,  
storage and automated warehouse





# U01

## Storage tote

- Container for industries of all types
- Constant weight
- Stackable
- Inert to chemical agents
- Inside/outside labelling
- Silk-screen printing available
- Smooth interior for quick cleaning

# WEAR TEST

Comparison between MPS srl compound and virgin compound.

DIMENSION	WEIGHT	VOLUME	MATERIAL	COLOR	PRODUCT CODE
mm 500 x 340 x 235	Gr 1200	35 Lt	PP-COPO-R	Green	XXXXX

DIMENSIONAL TOLERANCE: ± 1,5 mm

WEIGHT TOLERANCE: ± 5%

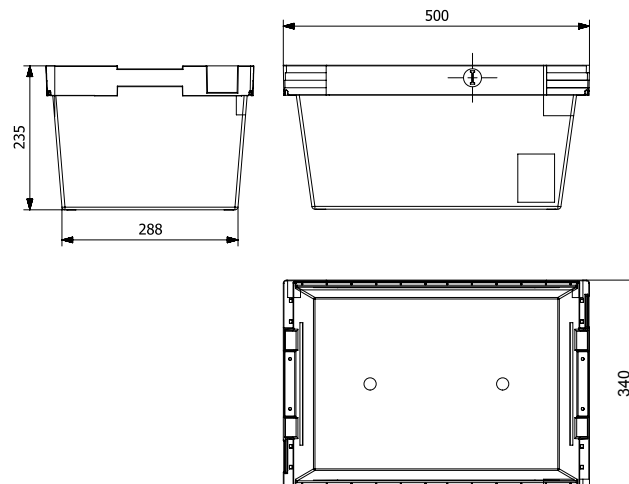
RECOMMENDED USE TEMPERATURE: -5°C +50°C



### U01 PLASTIC CONTAINER FOR AUTOMATED WAREHOUSES

MPS plastic containers are designed for manual and automatic handling in logistics centers and warehouses.

The container is perfectly stackable when empty, thus saving up to 75% in warehouse storage.



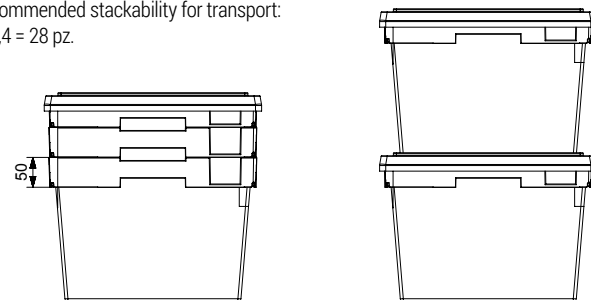
### ACCESSORIES

- Bar code PET 50 white PT

**COLOR:** In addition to the standard color, they can be moulded in any color with a minimum order of 500 pcs.

**COLLECTION AND RECYCLING:** For greater environmental protection MPS undertakes to collect worn or damaged plastic pallets free of charge. Only condition, the plastic pallets must be cleaned.

**STACKABILITY:**  
Recommended stackability for transport:  
m 2,4 = 28 pz.



## Tr

### Test report No. 2316

**Date** 30/04/2019  
**Customer** M.P.S. srl, Via Vallina Orticella 36,  
31030 Borso del Grappa (TV)

**Samples Analysis** No. 2 samples (TABER TEST wear tests)  
Determination of index of wear through  
Taber test

## SAMPLES

The sample (supplied by the customer) was identified by the client as follows:

- SAMPLE 1: **PP Virgin (fig. 1)**
- SAMPLE 2: **Regenerated PP (fig. 2)**



Fig. 1 (PP Virgin)



Fig. 2 (Regenerated PP)

## ANALYSIS AND RESULTS

The samples were subjected to the following analyzes:

- Abrasion resistance (ASTM D4060-95)

Taber Test tests: (ASTM D4060-95)

The wear tests for each sample were conducted with the Taber tribrometer technique. For each sample, 5 specimens measuring 100 x 100 x 2,5 mm were tested.

The table shows the average values of the five replicated measures. The operating conditions are listed below:

- > Mole CS10
- > No. of turns = 1000
- > Applied load = 1000 gr

Table 1: Taber Test Results

SAMPLE	WEIGHT LOSS (mg)	PERCENTAGE LOSS (%)
1	29,7	0,13
2	26,9	0,12

- - > Analyzes found no significant differences < - -

# AESTHETIC AND FUNCTIONAL TEST

Direct comparison between the Virgin PP item and the Regenerated PP item

## Tr

Test report  
No. 279MPS

**Date** 30/04/2019  
**Customer** M.P.S. srl, Via Vallina Orticella 36, 31030 Borso del Grappa (TV)  
**Samples Analysis** No.2 samples  
Determination of aesthetic (color), dimensional and functional differences

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## COLOR

Aesthetically, the regenerated compound container has a uniform but slightly more opaque color, being the starting base gray, it is a normal characteristic of the regenerated materials as it is not possible to make a precise selection of the color of the items being recycled.



Fig. 1 (Regenerated PP)



Fig. 2 (PP Virgin)



## > STACKING

The stacking / threading / unthreading test gave a positive result, the test was carried out in the various combinations to be sure of the compatibility of the boxes in regenerated compound with those in circulation.

## DIMENSION < AND FUNCTIONALITY

To ensure that the boxes in regenerated compound are compatible with the existing systems, we have performed a dimensional analysis: there are no significant differences in dimensions.



**Empirical tests of rupture and flow were performed, confirming the positive results found in other similar applications and always with the same compound. The product performance is satisfactory for the type of application.**



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Injection Plastic Moulding  
Company

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YOUR IDEAS**

Us

Company

Lean production like our  
Lean thinking



Certified Company  
DNV UNI EN ISO 9001:2015



## Recycled Plastic Packaging

# A story that speaks volumes

M.P.S. Srl was born in 1999 as a spin-off of a mould construction company.

Since its founding, in a short time, the need has come to produce small series on behalf of third parties, up to the acquisition of complete ranges of products. The continuous push of the market has led to an expansion of the machine park and, at the same time, to an increase in the level of automation on the moulding machines. Nowadays the company covers an area of about 4000 square meters, a large fleet of machines that has 18 injection moulding machines: from 120 tons to 2500 tons.

The company works in a continuous cycle 24/6, our staff is a young and qualified, we aim to improve and work synergistically. This makes it possible to achieve the expected results, expanding our company year after year, always in constant search for improvement and innovation to meet all the needs of customers.

# One specific goal: continuous improvement

Here at M.P.S. Srl we aim to implement our growth by investing in new technologies and training our staff.

To facilitate the achievement of corporate objectives, we are implementing methods and procedures by sharing them with our teams.

40.k ton / year production

18 presses from 120 to 2500 tons

Engineering & Co-Design

Mould construction

2k / 3k injection moulding technology

Procurement, logistics, transport, storage

## Green Vision

In recent years MPS has improved its range of plastic products, always maintaining constant care for what is requested by the market, with an eye to the environment and eco-friendly productivity.

For every leading company, which aims to offer a state-of-the-art product, quality is unquestionably one of the most important values to be respected.

A constant search for new materials, the use of latest machinery and the care for design are the basis of the company's philosophy.



Partnering & Green Policy



Second Life Plastic from separate collection







# Contact us

**MPS SRL UNIPERSONALE**

VIA VALLINA ORTICELLA, 36  
31030 BORSO DEL GRAPPA (TV) ITALY

+39 0423 930463

commerciale@mpsplastic.com

© 2020 M.P.S. Srl Unipersonale  
VAT 03500940261 REA: TV - 277683  
Share Capital: € 100.000,00

**www.mpsplastic.com**



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