Emamou

Portfolio. Recycled Plastic Resins



EMAMOU & THE ENVIRONMENT



Societal Struggles:

- Society struggles to use resources sustainably and efficiently.
- Emamou provides solutions for the circular bioeconomy and daily life.
- So you tackle environmental impacts, grow a long-term business, and we have a healthy Earth to live in!



Emamou's Mission:

Emamou provides recycled plastics for a sustainable economy:

- Reduce greenhouse gas emissions & climate impacts
- Recycle and reuse resources
- Contribute to new jobs and sustainable markets

Emamou provides sustainability consultation to our customers

PLASTICS & EXISTING PROBLEMS



GENERAL CHALLENGES



Polluting environment

80% of 8 billion Mt of plastics end up in the environment including landfills, oceans, animal guts

- Plastics need up to 1,000 years to decompose in nature



Regulations

- Reuse and recycling materials for a circular economy mainly in the EU
- Ban of certain single-use plastics in the EU comes into force by July 2021

Industry

Public Acceptance

Design and collection for 3R not yet efficient

Pressures of general public for positive changes



SPECIFIC CONCERNS



1. QUALITY:

Recycled plastic materials & products have *low quality*



2. ENVIRONMENTAL PROBLEMS

All types of plastics still pollute soil, water, ocean



EMAMOU provides solutions to tackle these concerns!!!

3. RELIABILITY:

Many recycled plastics have *no recognised* sustainability certificates to assure recycling, align with regulation or gain consumers' trust



4. SUSTAINABLE & LONG TERM BUSINESS

How a sustainable business can be implemented/ what are actions to tackle environmental impacts?





OUR SOLUTIONS



Sustainable & Valued Products

- 100% recycled plastic resins & products
- Cost-effective solutions
- Compliance to long term sustainability regulations

Societal & Environmental Contributions

- Replacement of harmful single-use plastics
- Contribution to circular economy development
- Public expectation & promotion of a carbon neutral society

Trusted Sustainability Advisor

- Advices for a sustainable & long term business
- Committed services before, during & after purchase
- We value your sustainable partnership!









YOUR POTENTIAL GAINS



Cost savings

 Sourcing environmentally friendly materials & products with competing price

Sustainable Business

- Consulting sustainability (ESG) performance and reporting
- Accompanying your business towards a sustainable growth and wide public acceptance

Peace of Mind

 Being your trusted and committed provider for desired and sustainable products







RECYCLED PLASTIC RESINS & PRODUCTS

OVERVIEW: RECYCLED PLASTICS





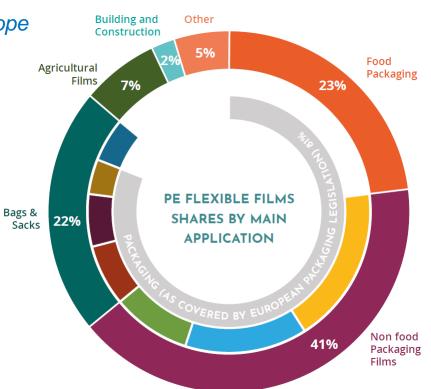
- Recycled plastics reduce massively GHG emissions, tackle better environmental impacts.
- Most widely plastics recycled in the EU:
- ☐ *PET: 30%*
- □ LDPE: 29%
- ☐ HDPE/PP: 20%



OVERVIEW: LDPE/LLDPE

Source: Plastic Recyclers Europe

- EU: net importer of resins
- Total consumption: 8.5-9 Mt
- Total collection for recycling: 5.2 Mt
- Total output of recycled PE films: 1.8
 Mt (20% of total demand):
 - Carrier bags (91%)
 - Bags & sacks (refuse, 68%)
 - Building film (56%)





OVERVIEW: Estimated, PE Recycled Content

Source: Plastic Recyclers Europe

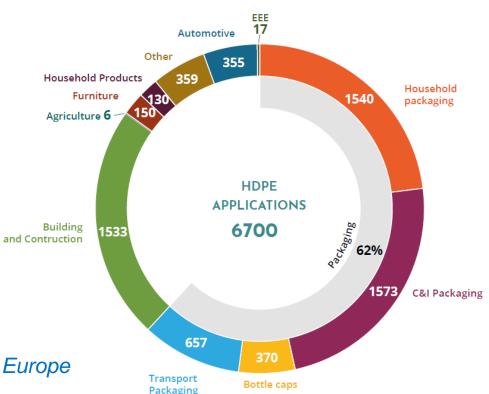
	Current estimate	Future estimate
Film and Foil (Non-food)	12%	40%
Refuse Bags	68%	90%
Other Bags	18%	70%
Agricultural Films	22%	39%



OVERVIEW: HDPE

- EU: slightly net importer of HDPE resins
- 6.7 Mt consumption/ 0.7 Mt recycling
- Collection for recycling:
 - Household rigid packaging: ~60%
 - Commercial rigid packaging: ~30%



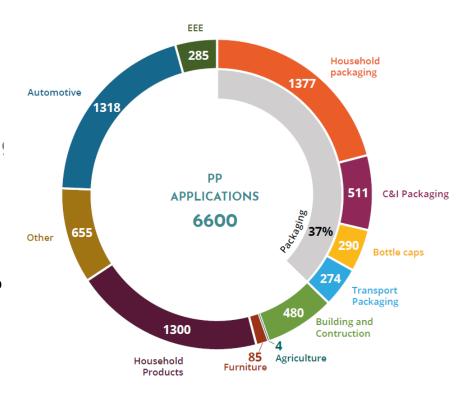




OVERVIEW: PP

- EU: slightly net importer of HDPE resins
- 6.6 Mt consuption/ 0.5 Mt recycling

- Collection for recycling:
 - Household rigid packaging: ~40%
 - Commercial rigid packaging: ~60%



Source: Plastic Recyclers Europe



RECYCLED CONTENT CERTIFICATION







Flexible Packaging

Rigid Packaging

Consumer Goods

Agriculture & Horticulture

(versatile packaging)

(for heavy and strong packaging)







Personal care & Cosmetics
Commercial industries
Building & Construction industry
Transport industry
Automotive Industry



Mulch & greenhouse film

OUR RECYCLED PLASTIC RESINS



Recycled: ERM.01 (LDPE A1)

LDPE-A1





- Post industrial films
- Best quality of PE films



General packaging films including shopping bags, trash bags, packaging sheets

Certification:





Trash Bags:



Agri & Horticulture Film



Recycled: ERM.02 (LDPE A2)





Source & Quality:

- Post industrial films
- Very good quality of PE film

Applications:

 General packaging films including shopping bags, trash bags, packaging sheets

Certification:





Trash Bag:





Recycled: ERM.03 (LDPE B)



Source & Quality:

- Post industrial films
- Good quality of PE film

Applications:

 General packaging films including shopping bags, trash bags, agricultural film, packaging sheets

Certification:







Trash Bag:





Recycled: ERM.04 (LDPE Yellow)



Source & Quality:

- Post-agriculture films
- Good quality of PE film

Applications:

 General packaging films including trash bags, agricultural film, packaging sheets

Certification:







Agricultural mulching:





Recycled: ERM.05 (LDPE Pink)



Source & Quality:

- Post-agriculture film
- Good quality of PE film

Applications:

 General packaging films including trash bags, agricultural film, packaging sheets

Certification:







Agricultural mulching:





Recycled: ERM.06 (LDPE Black)



Source & Quality:

- Post-agriculture/ industrial film
- Good quality of PE film

Applications:

 General packaging films including trash bags, agricultural film, packaging sheets

Certification:







Trash Bag:





Recycled: ERM.07 (HDPE Black)



Source & Quality:

- Post industrial packaging
- Rigid and good quality of PE material

Applications:

General packaging products and compression moulding applications

Certification:







Bottle cap (compression molding)



Packaging Film:



Recycled: ERM.08 (HDPE White)



Source & Quality:

- Post industrial packaging
- Rigid and good quality of PE material

Applications:

 Blow moulding, raffia tape, yarn, packaging films

Certification:







Home care bottles (blow moulding):



Packaging Film:



Recycled: ERM.09 (HDPE Injection Black)



Source & Quality:

- Post industrial packaging
- Rigid and good quality of PE material

Applications:

 Injection and compression moulding, thermo form applications

Certification:









Automobile producto (thermo form):



Recycled: ERM.10 (PP Milky)



Source & Quality:

- Post industrial packaging
- Rigid and good quality of PP material

Applications:

 Raffia tape, yarn extrusion for woven materials

Certification:



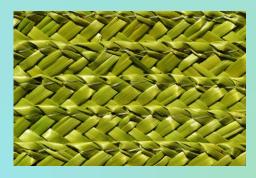




Yarn rope:



Woven materials:



Sustainable Solutions EXPANDED!

WE ALSO KEEP:

- ✓ Adding new recycled resins (technical plastics) to our portfolio
- ✓ Tailoring recycled resins to your specific requirements and need
- ✓ Supplying other sustainable materials and products for your business
- ✓ Providing sustainability advice and comprehensive solutions to help you grow a sustainable business, comply with long-term regulations, and satisfying societal expectation



CONTACT US:



www.emamou.com



info@emamou.com



+31 618 048 468

