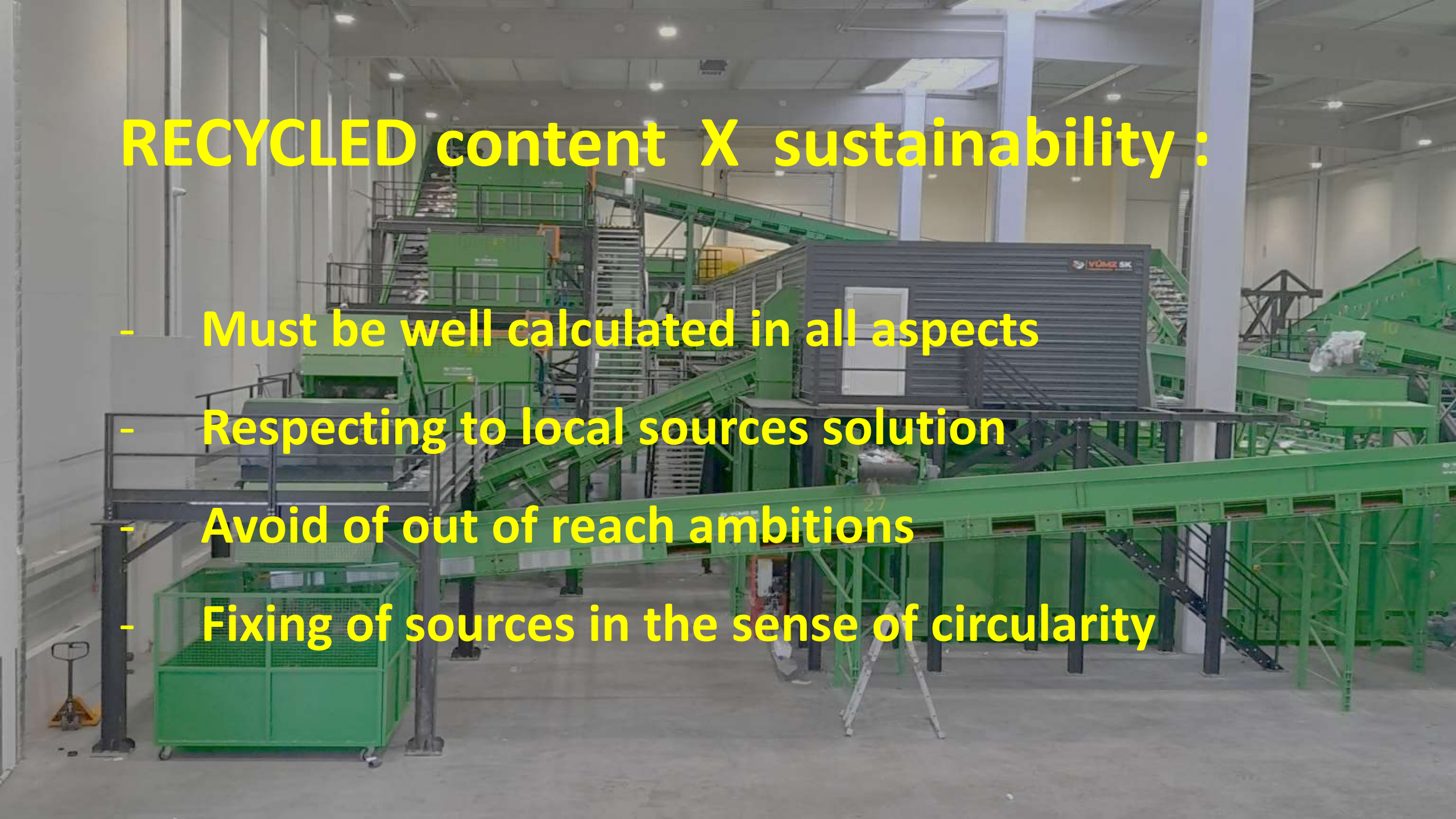


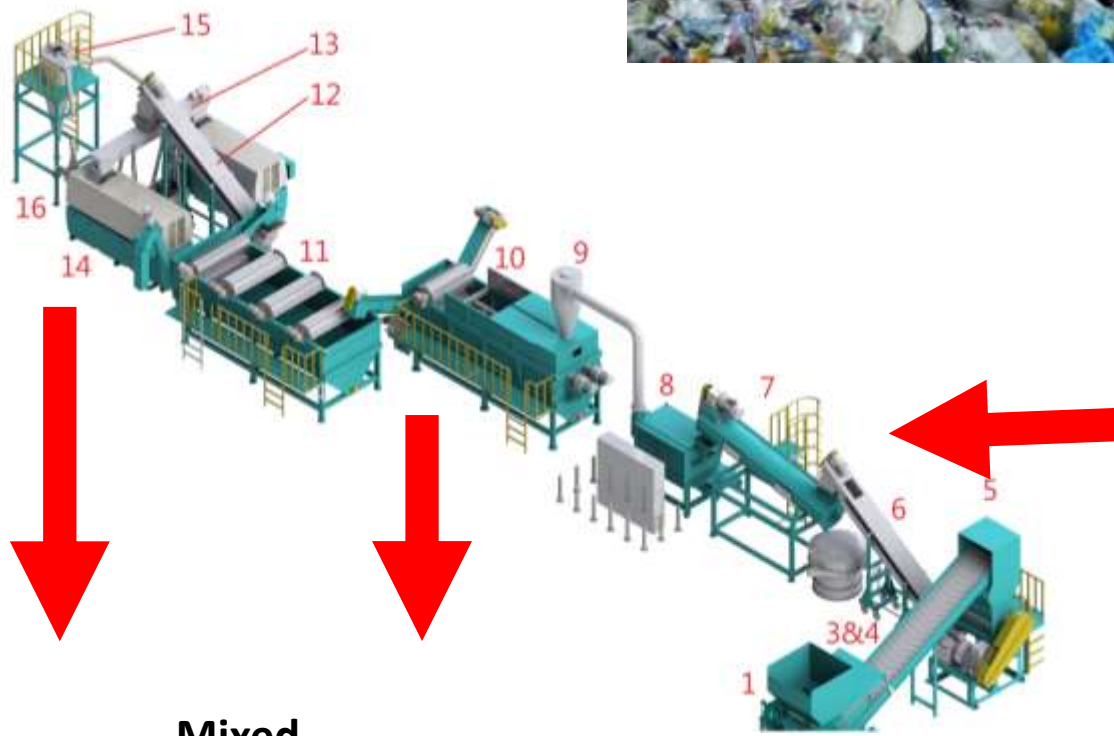
Využití odpadních plastů („RECY věci“)

RECYCLED content X sustainability :

- Must be well calculated in all aspects
- Respecting to local sources solution
- Avoid of out of reach ambitions
- Fixing of sources in the sense of circularity



SOURCES :
(same all over)



50%

50%

Mixed
Excretes 1



Mixed
Excretes 2 & 3

Brussels, 30.11.2022
COM(2022) 677 final
2022/0396 (COD)

Proposal for a

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on packaging and packaging waste, amending Regulation (EU) 2019/1020 and Directive (EU) 2019/904, and repealing Directive 94/62/EC

(Text with EEA relevance)

{SEC(2022) 425 final} - {SWD(2022) 384 final} - {SWD(2022) 385 final}

Option 1: Better standardisation & clearer Essential Requirements	Option 2: Mandatory targets and stricter requirements	Option 3: Far-reaching targets and requirements
<p>M5: Minimization of empty space in packaging in selected sectors, including e-commerce</p> <p>M1: Update of Essential Requirements to minimize over-packaging</p> <p>M10a: Revision of CEN standard for defining reusable packaging</p> <p>M19: providing clarity on the definition of reuse activity versus a "preparing for reuse" activity</p>	<p>M8b: Mandatory reuse targets for selected packaging groups for 2030/2040 in selected sectors +M19+M10a+M10b: Definitions and mandatory requirements for reusable packaging formats set in EU legislation and standards for some formats+M10c: Definition and mandatory standards for reuse systems</p> <p>M7: Phase out avoidable / unnecessary packaging</p> <p>M2b: Mandatory target of 19% reduction of packaging waste per capita in 2030 compared to the baseline +M1+M5</p>	<p>M8c: Mandatory high level targets to increase the reuse of packaging by 2030/2040 in selected sectors +M10a+M10b+M10c+M19</p> <p>M2c: Mandatory target of 23% reduction of packaging waste per capita in 2030 compared to the baseline +M1+M5+M7+M3: Banning by 2030 of heaviest packaging for selected items based on existing lighter alternatives</p>
<p>M21a: All packaging shall be reusable or recyclable by 2030- clarification of Essential Requirements and recyclability definition +M21b: All reusable packaging must be recyclable as of 2030</p> <p>M22a: Qualitative definition of recyclable packaging</p> <p>M28: Clarification of biodegradability and compostability and updates of respective Essential Requirements & standard EN 13432</p> <p>M29a: Allowing</p>	<p>M22b: Definition of recyclable packaging based on design for recycling (DfR) criteria complemented by the recyclability assessment procedure and a negative list of non-recyclable packaging characteristics +M21a+M21b+M22a+M23: Harmonisation of EPR Fee Modulation Criteria</p> <p>M29d: Mandatory compostability for certain out of the selected plastics packaging types and for the remaining ones compostable or conventional plastics possible +M28</p>	<p>M22c: Quantitative definition of recyclable packaging +M21a+M21b+M22a+M23</p> <p>M29b: Mandatory compostability for all selected plastics packaging types +M28</p>

Environment

[Home](#) > [Topics](#) > [Waste and recycling](#) > [Waste Framework Directive](#)

Waste Framework Directive

The Waste Framework Directive sets the basic concepts and definitions related to waste management, including definitions of waste, recycling and recovery.

The [Waste Framework Directive](#) lays down some basic waste management principles. It requires that waste be managed

- without endangering human health and harming the environment
- without risk to water, air, soil, plants or animals
- without causing a nuisance through noise or odours
- and without adversely affecting the countryside or places of special interest

It explains when waste ceases to be waste and becomes a secondary raw material, and how to distinguish between waste and by-products. The



OUR DATA COLLECTION SYSTEM



RecoTrace™



- **GO TO: www.recotrace.com**
- **User-friendly and in Czech language**
- **Manual on the use of RecoTrace available**
- **Step by step support from Recovinyl when requested**
- **Register your data monthly**

FUNDAMENTAL -PE virgin film X 100% post-recycled film :

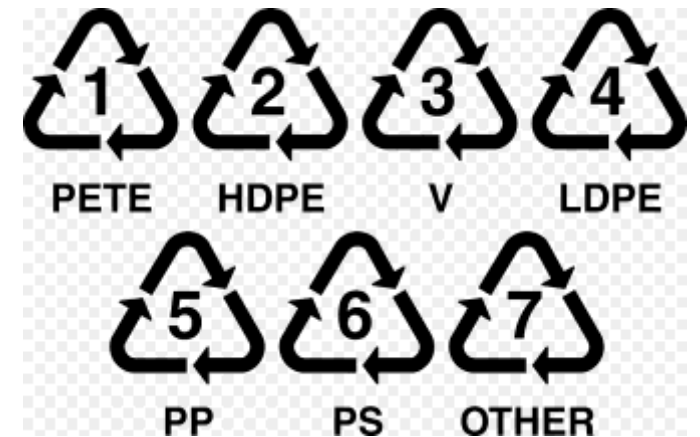
(Q : is the quality acceptable ?!)

(A : it can be even cool if well promoted – all in hands of the Seller)



Ex.no.4 : post-consumer sorted – QUALITY 1

(sorting provides relatively pure and specific polymers – but still remains contaminated - IT WILL NEVER CHANGE)



„Bottle-to-Bottle“ ?!
NO way for 60% of plastic post-waste
(Excretes)
...than looking for less
challenging applications

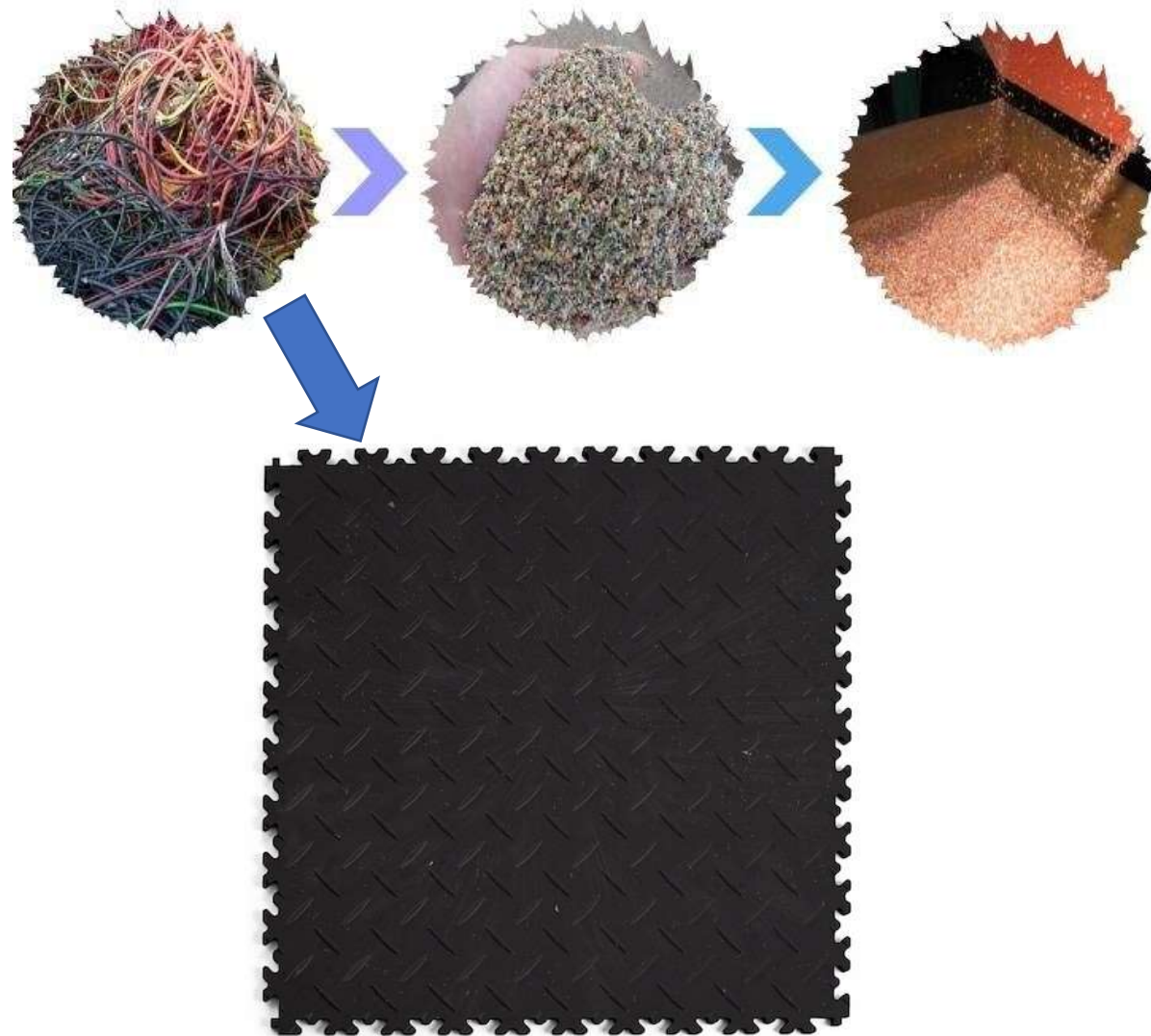




**„Bottle-to-Bottle“
?!
NO way for 60% of
plastic post-waste**

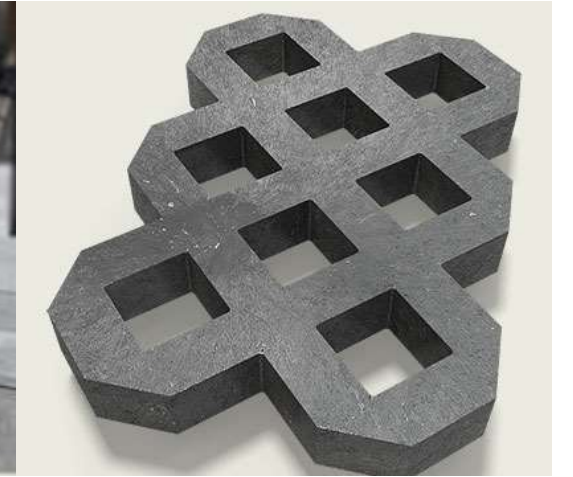
Ex.no.2 : wire&cable EOL (end-of-life) re-processing

(even 30-40 years old cables + copper as a virgin material ; about 1,2 mil.TO per Year in Europe)



Ex.no.3 : post-consumer mixed

(after sorting still remain 40% of mixed EOL plastics ; sorting level can be negotiated with waste-producer)



Ex.no.5 : post-consumer sorted – QUALITY 2

(sorting and recycling quality is unequal ; lower quality can be used for higher thickness and more massive products)

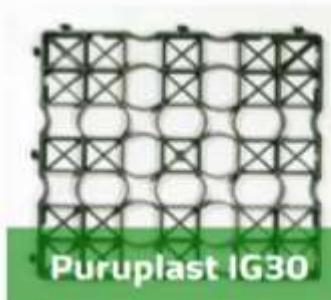


Puruplast E50

Typ vhodný pro:
domácí i profesionální
využití - nejpevnější a
nejuniverzálnější typ



Puruplast IG40



Puruplast IG30

Typ vhodný pro:
domácí nenáročné použití
v zahradách nebo parcích



Puruplast MP38

Ex.no.6 : post-consumer mixed+sorted

(Products with an requirements on durability,
weatherability and user safety)

It can be well combined with mineral fillers including
B&C waste)



Ex.no.7 : post-consumer spec-sorted

(Tetrapak specific composition = specific and unique properties for wall/floor/roof pannels)



Ex.no.8 : post-consumer spec-collected

(individual seller's activities providing very well defined polymers/materials in excellent quality

ATTN : low volume + not very sustainable)



Ex.no.9 : post-consumer waste-of-waste

(all residuals from previous – variable content and quality whenever – it can be controlled only partially)

Estimated about 20-25% from total plastic waste)



Roof covering

Florists



Garden borders

Ex.no.10 : plastic post-consumer „in minority“

(partially sorted plastics only as a binder – combination with >50% of minerals
Quite huge volume and potential for post-mixed-plastic waste)



polymer-sand paving
tiles



polymer-sand roof tiles



polymer-sand sewer
manholes



polymer-sand sewer
wells



and other polymer-sand
products.

THE POLYMER-SAND COMPOSITION



[\(309\) Waste Processing Equipment | Automated line - YouTube](#)

10 STEPS TO REACH TRUE-SUSTAINABLE SOLUTION :

- 1 – UNDERSTANDING AND APPRECIATION OF THE POST-WASTE QUALITY....AMBITIONS RESTRAINING**
- 2 – PRODUCT/ARTICLE IDENTIFICATION (in sense of material replacement – no product range extension)**
- 3 – AVAILABLE WASTE SOURCING WITH LOCAL ASPECT TAKING INTO ACCOUNT**
- 4 – 1st LCA and SLCA STUDY BASED ON MODELLING AND SIMULATIONS (transport costs accented)**
- 5 – PRODUCT DESIGN + FORMULATION RESEARCH + TECHNOLOGY ENGINEERING**
- 6 – SEMI-TESTING PHASEprototype moulding, 3D printing etc.**
- 7 – 2nd LCA and SLCA STUDY – MORE PRECISE SIMULATION (already all aspects calculated more accurately)**
- 8 – DECISION MAKING ABOUT THE PROJECT REALISATION**
- 9 – STARTING-UP AND 3rd LCA and SLCA STUDY COMPLETION**
- 10 – RIGHT, TRUE AND REAL ARGUMENTATION....NO-GREENWASHING COMPLIANCES**

VÝZVY :

1. Nové definice kategorií plastových odpadů – důraz na další využití
2. Změna složení „žluté popelnice“ (PET, design a složení obalů, PET místo PP/HD...směsný odpad+)
3. Zaujmout stanovisko k industrial scrap – zejména automotive !
4. PCR vs PIR – objasnit, definovat, instruovat
5. Bilance za ČR, kraje atd - 16 kg/ob./rok↑kde je zbytek?....např PP max 30kTo
6. Koordinace třídících center (vč. logistiky)
7. Podpora na výrobky X technologie (viz LCA/GHG atd.)
8. Certifikace firem
9. Způsoby recyklace-využití (chem/mech/TAP) vs. Dostupnost
10. Naslouchat potřebám zpracovatelů – viz Olovo vs. PVC soft

