



# What Materials Can We Process?



# What Materials Can EPI Process?

Pyrolysis can be used to process just about any form of organic material that you care to think of. When you consider that with the exception of Minerals & Metals, pretty much everything else on Planet Earth is either organic or has originally been produced from or derived from organic matter

Once you appreciate that even such items as Plastics and Tyres, traditionally regarded as being difficult to dispose of, originate from organic materials, i.e. Oil and Tree Sap, it becomes clear that the process can be effective in a wide variety of applications.

The process of Pyrolysis can be delivered in a number of ways, but EPI's process is exceptionally flexible and not particularly demanding. The only real stipulations that we would make are that moisture content should fall somewhere below 25% and that the material has been shredded in order to produce a more uniform size of particle. Any inert content should be removed as this simply takes up process capacity with no beneficial return.

The primary reasons for this being our desire to optimise the residence times to suit a particular type of material. This ensures that most, if not all, of the material is completely processed at around the same time.



## Example Material Streams:

- Mixed Domestic Waste
- Commercial & Industrial Waste
- Packaging and Food Waste
- Paper and Card
- Textiles (Man Made & Natural )
- Mixed Plastics and Rubber
- Anaerobic Digester Residue
- Animal Rendering and Bone Meal



- Sewage Pellets and Sludge Cake
- Animal Slurries and Chicken Litter
- Agriculture Residues and Biomass Crops
- Straw and Forestry Residues
- Woodchip, Board and Laminates
- Clinical & Healthcare Wastes
- Landfill Remediation
- MBT Plant Residue
- Tyres, Hoses and Automotive Residues

This list is not exhaustive for the simple reason that there are certain to be any number of related material streams which may be derived from any of the above. In summary the key criteria should be : That the material to be processed is either organic or was derived from organic material, has been shredded or pelletised to produce a more uniform size, that inert materials have been removed and moisture content at point of delivery, falls somewhere between 18% - 25% before final stage drying on site, prior to processing in the EPI Plant.

