



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 Earth is either organic or has originally been produced from or derived from organic material.

Once you appreciate that even such items as Plastics and Tyres, traditionally regarded as being difficult to dispose of, are both originated 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 between 10 - 20%, and that the material has been shredded in order to produce a more uniform size of particle.

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:

- *Textiles (Man Made & Natural)*
- *Food Waste and Packaging*
- *Paper and Card*
- *Mixed Domestic Waste*
- *Mixed Commercial Waste*
- *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 and Medical Wastes*
- *Landfill Remediation and 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 only criteria should be that the material to be processed is either organic or was derived from organic material, and that moisture content falls somewhere between 10% - 20%.

