BIOPLASTICS. BIOBASED OR **BIODEGRADABLE?**





The term 'bioplastics' describes plastics that are either biobased, biodegradable or feature both properties.





Biobased plastics are either partially or fully derived from renewable sources, such as algae, corn or sugarcane.



6.1 million tonnes

The market for Bioplastics is expected to grow from 4.2 million tonnes in 2016 to 6.1 million tonnes by 2021. Although this still only represents 1-2% of global plastic produced*

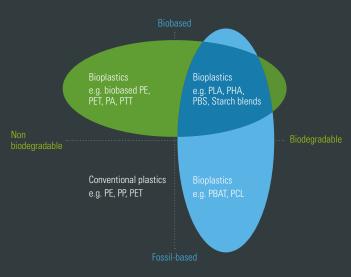
*European Bioplastics, nova-institute (2016)



of bioplastics are used in plastic packaging. Other uses include the automotive, agricultural, textiles and building sectors.



Biodegradable plastics are those that degrade under certain conditions into natural substances such as carbon dioxide, methane and water through biodegradation. This is a chemical process caused by micro-organisms in the environment, and thus the process depends on factors such as location and temperature.



BENEFITS OF BIOPLASTICS

Reduced dependency on fossil fuels which are a limited resource.



Bioplastics can have significantly reduced CO₂e emissions associated with the raw materials when comparing with fossil fuel based plastics.



Biodegradable materials may compost in gardens or need to be industrially degraded offering an alternative end-of-life to landfill. However, this needs to be communicated clearly to consumers so that biodegradable materials do not contaminate plastic recycling streams.



Biobased plastics offer a broad range of end-of-life options as many can still be recycled or reused.



WHAT IS RPC's POSITION ON BIOPLASTICS?



materials are economically viable, available in or increased performance properties for the specified packaging. If these conditions are met or if a customer specifically requests bioplastic material use then RPC will work with supply chain partners to













therefore believes it is preferable that the biomass source used to make biobased polymers are not



bioplastics will be disposed of at end-of-life so that where possible they should be compatible with current recycling systems, or conditions are in place for the correct disposal route e.g. composting.





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