



Bio-Based

Glossary

Bio based, *n.*

Derived from plant or animal based renewable resources.

Bio economy, *n.*

Refers to the total global and cross industry activity related to all research, development and production associated with biotechnology.

Bio engineered, *v.*

Lab engineered from bio knowhow and/ or bio-based inputs. This can more often mean through the use of GMO (Genetically Modified Organisms).

Bio fabrication, *n.*

Product development directly from raw material to finished product through the use of biological engineering.

Bio polymer, *n.*

A polymer either naturally occurring from bio resources or synthetically produced from bio resources.

Bio synthetic, *n.*

A polymer created from either partial or 100 % natural renewable resources for the manufacture into synthetic fibres.

Biodegradable, *adj.*

The ability for a material to break down under set parameters. (time / conditions)
Materials that biodegrade do not always compost or can take too long to compost.

Compostable, *adj.*

The ability of something to break down under set parameters (time / conditions)
decomposing back to its natural elements without harm to the environment.

Drop in processing, *n.*

The technology can be processed in existing manufacturing facilities (like for like capabilities, quicker to market, no capital investment).

Feedstock, *n.*

The input raw material.

GMO (Genetically Modified Organisms), *n.*

A genetically modified organism has had its genetic makeup modified in some way in a laboratory using genetic engineering. The output of this is an organism with unique characteristics not found in nature or through traditional cross breeding.



Bio-Based

New processing, *n.*

The technology requires new processing capabilities, appropriate specifically for the biopolymer being manufactured (speed to market slower, investment higher, generate new end of life options, more novel output).

Partially bio, *n.*

When chemical inputs are from a mixture of bio based and oil-based resources, due to technical, cost and or sustainability constraints.

Recyclable, *adj.*

The product can be remanufactured / reprocessed to the same value or higher for use into the same industry / product or across industries.

Renewable, *adj.*

Derived from resources that are self-replenishing on an annual basis (can be plant or animal based).