

## Product Description

UBQ ClimaPos™ is a bio-based sustainability additive that enables global greenhouse gas removal and avoidance as a formulation partner. As little as 5% can power your progress toward ambitious carbon-neutral or even climate-positive goals. UBQ ClimaPos™ has a very low carbon footprint, both in production and application. It helps meet or exceed sustainability goals while supporting circularity and recyclability.

Primary use is for applications where a positive environmental impact is desired.

## Physical Properties

Form: Tablets

Color: Dark Gray

	REFERENCE	UNIT	TEST METHOD
Bulk Density	0.50-0.65	g/cm <sup>3</sup>	Internal Test
Moisture content (as produced)	<2*	%	ASTM D6980
Particle-size distribution	< 500	Micrometer (µm)	ASTM E11
Density	0.9-1.0	g/cm <sup>3</sup>	ASTM D792

\* Reported moisture value refers to testing done during UBQ production process according to standard testing plan.

Specifications are re-evaluated periodically.

UBQ reserves the right to modify any specifications, results and tolerances.

## Life Cycle Assessment

### Carbon Accounting Impact

Amount of carbon in every kg of UBQ ClimaPos™

Cradle-to-Gate Global Warming Potential (GWP)100 results are presented in Table 1

This value does not include the avoided emissions by substituting plastic, rubber or wood.

Indicator (Unit)	Total cradle-to-gate
UBQ Production Emissions (includes Fossil fuel and Land use) (kg CO <sub>2</sub> eq)	0.15
UBQ Biogenic Carbon Removal (kg CO <sub>2</sub> eq)	-1.17
Total UBQ Carbon Footprint (kg CO <sub>2</sub> eq)	-1.02

Table 1. GWP impact indicators using the -1/+1 approach.

### Beyond Carbon Accounting Impact

Amount of carbon avoided in carbon equivalent methane emissions by every kg of UBQ ClimaPos™

Cradle-to-Gate Global Warming Potential (GWP)<sub>20</sub> results are presented in Table 2

This value does not include the avoided emissions by substituting plastic, rubber or wood.

Indicator (Unit)	Total cradle-to-gate
UBQ Avoided Emissions (kg CO <sub>2</sub> eq)	7.6

### Processing Method

Injection molding, extrusion, compression molding, 3D printing and rotomolding

- Suitable for use on its own where final product characteristics permit.
- Processing temperature should not exceed 190°C (374°F).
- Suitable for compounding/dry blending with polymers and elastomers where the processing temperature does not exceed 190°C (374°F).
- UBQ ClimaPos™ must be pre-dried at 60°C (140°F) max prior to processing.

### Storage

- UBQ ClimaPos™ is packaged in bags.
- Store the material in dry and cool conditions.
- In the original packaging, UBQ ClimaPos™ can be stored up to 24 months under normal storage conditions.

### Health and Safety Information

- For specific information about safety in handling and processing, please request the Material Safety Data Sheet via email at [msds@ubqmaterials.com](mailto:msds@ubqmaterials.com).
- UBQ ClimaPos™ is not intended for direct contact in food, liquid, or chemical applications.

### Disclaimer

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