



BAMBACORE

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Future Collaboration with Bio-polymers and Compounds

Profile



Bambacore is an Australian based company established in 2019 to provide bio-based solutions and services to the plastics industry.



Bambacore provides ways to use the benefits of natural fibres and bio-polymers to address modern day challenges like sustainability, light-weighting and cost competitiveness.

Bambacore utilise natural fibres such as bamboo, rice/wheat husk, corn starch and other fillers with benefits that include improved mechanical properties, greater strength and rigidity.

Bambacore is established to address a niche market of the plastics industry. This is the growing demand of bio-based solutions.

Made to Degrade



Bioblend grades are performing **blends of different biopolymers loaded with mineral fillers** to improve processing, properties and to decrease costs. All grades are biodegradable / compostable according to ASTM and EN regulations.



Spectabio grades are **bio-polymers reinforced with bamboo fibers, rice husk or wheat straw/husk**; a line of materials that is biodegradable or compost-able acc. to ASTM and EN regulations. Natural fibers are improving properties and are decreasing cost levels.

Made to Endure



Spectadur grades are sustainable durable compounds and sheets based on **PP or LD-/HD-PE**. All Spectadur grades are reinforced with **high-performing bamboo fibers**, rice husk and wheat straw/husk.



Biodur grades are sustainable blends of durable polymers like **PP or LD-/HD-PE and bio-polymers like TPS**. Biodur grades aim to reduce the amount of non-bio-degradable plastics. Main market are packaging applications.



- Bioblend grades are **performing blends of different bio-polymers**, all kept together with biobased, sustainable additives.
- All grades are **compostable/biodegradable** in compost conditions.

Applications:

- Single-use applications (cutlery, food boxes)
- Season-use applications (kitchen ware, personal care)
- Rigid packaging



Compostable



Food Contact Safe



Dishwasher Safe



Microwave Safe

Grades	Natural Fiber Reinforced	Mineral Filler Filled	Durable	Compostable	Biodegradable-in-Soil	Food Contact Safe	High-Heat Stable (> 90° C)	Dish-washer Safe (40 cycles)	Injection Molding Grade	Extrusion Molding Grade	Stiffness
Bioblend LT25B (cPLA)		X		X		X	X	X	X		***
Bioblend LT25B R/B (cPLA)	X	X		X		X	X	X	X		***
Bioblend LT25B EX (cPLA)		X		X		X	X	X		X	***
Bioblend BS30S		X		X	X	X			X		**
Bioblend TS40S		X		X	X	X		X	X		*



Spectabio grades contribute to the transition away from a linear to a **circular economy**, accelerating **sustainable development** and promotion of bio-based products.

- Spectabio grades are **bio-polymers reinforced with bamboo fibers, rice husk or wheat straw/husk**; **biodegradable-in-soil** or **compostable**.
- Natural fibers are improving properties and are decreasing cost levels.

Applications:

- **Agricultural applications** (pots, containers)
- Kitchen ware, house ware and pet ware
- Outdoor (foot wear)



Compostable



Biodegradable in Soil



Food Contact Safe

Grades	Natural Fiber Reinforced	Mineral Filler Filled	Durable	Compostable	Biodegradable-in-Soil	Food Contact Safe	High-Heat Stable (> 90° C)	Dish-washer Safe (40 cycles)	Injection Molding Grade	Extrusion Molding Grade	Stiffness
Spectabio LB30MB	x			x		x	x		x		xxx
Spectabio BB35MB	x			x	x	x			x		xx
Spectabio BR40MB	x			x	x	x			x		xx
Spectabio TR45MB	x			x	x				x		x
Spectabio TR15SB EX/SH	x			x	x					x	x



- Spectadur grades are sustainable, durable compounds and sheets based on **PP or LD-/HD-PE**.
- All Spectadur grades are reinforced with **high-performing bamboo fibers**, rice husk and wheat straw/husk.

Applications:

- Kitchen ware, house ware and pet ware
- Furniture, flooring, construction, outdoor
- Automotive & transport interiors (e.g. parcel tray shelf)



Food Contact Safe



Dishwasher Safe



Microwave Safe

Grades	Target	Natural Fiber Reinforced	Mineral Filler Filled	Durable	Compostable	Biodegradable-in-Soil	Food Contact Safe	High-Heat Stable (> 90° C)	Dish-washer Safe (40 cycles)	Injection Molding Grade	Extrusion Molding Grade	Stiffness
Spectadur PB25LI	Automotive	x		x			x	x	x	x		*
Spectadur PB30MB	General Purpose	x		x			x	x	x	x		**
Spectadur PB40LS EX	Automotive	x		x			x	x	x		x	***
Spectadur PB40LS SH (Sheet)	Automotive	x		x			x	x	x			***
Spectadur PR40MS	General Purpose	x		x			x	x	x	x		**



- Biodur grades are sustainable blends of durable polymers like **PP or LD-/HD-PE** and **bio-polymers like TPS**.
- Biodur grades aim to reduce the amount of non-biodegradable plastics.

Applications:

- Durable single-use applications (cutlery, food boxes)
- Rigid packaging



Food Contact Safe



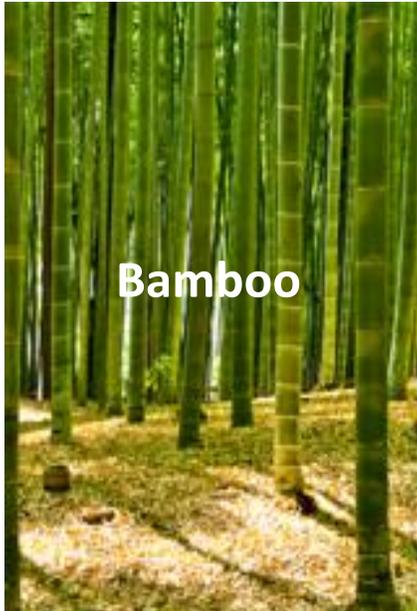
Dishwasher Safe



Microwave Safe

Grades	Natural Fiber Reinforced	Mineral Filler Filled	Durable	Compostable	Biodegradable-in-Soil	Food Contact Safe	High-Heat Stable (> 90° C)	Dish-washer Safe (40 cycles)	Injection Molding Grade	Extrusion Molding Grade	Stiffness
Biodur PS40S		x	x			x	x	x	x		XX
Biodur PS40S EX		x	x			x	x	x		x	XX
Biodur PP-PS40S SH		x	x			x	x	x			XX

Our reinforcements - benefits

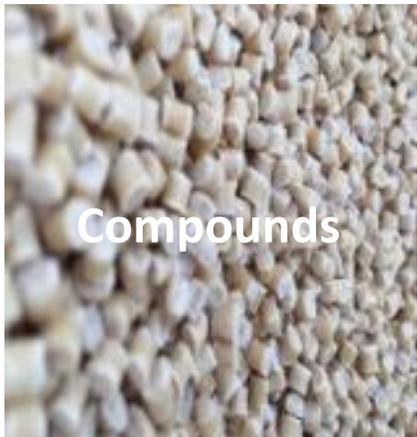


Bamboo

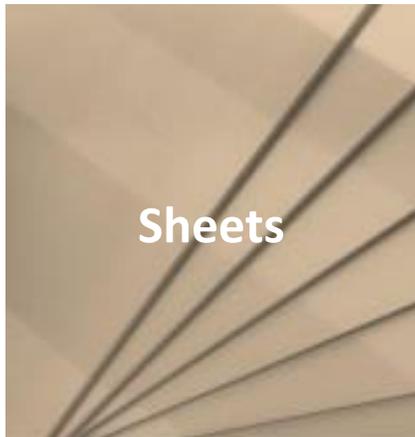


Rice Husk

Steady supply chain	very reliable & sustainable supply from local sources
Naturally grown	naturally grown, quick harvesting, mechanically extracted with high productivity (yields 3x more than other natural fibers)
Abundantly available	bamboo fibers extracted after 2–3 years ; rice harvested 2 times/year
Absorbs CO2	bamboo absorbs and stores more CO2 than other plants
Consistent properties	consistent & superior properties , grown in sub-tropical mono climate
No smell/odor	low odor & volatile organic compounds (VOC) emissions; not allergic
Social contribution	brings high-value employment into rural areas



Compounds



Sheets

Superior properties	superior mechanical properties, like strength, stiffness, impact resistance and acoustics/NVH etc.
Improved durability	improved durability and temperature resistance
Low weight	low weight , resulting in excellent specific properties
Really eco-friendly	significant of non-degradable/non-compostable polymers like most fossil-based plastics
Good visual looks	can deliver better aesthetics with modern surfaces

Our industry and markets



Thank you!



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Our in-country technical support team is available to help our customers adapt materials and make a real difference.