



EARTHWORKS

Nature's own elements!

Product Catalogue

www.earthworks.bio

Product Features



Injection Molding: The material is well-suited for injection molding processes



Extrusion coating: Our material is also compatible with extrusion manufacturing techniques and can be coated on paper substrates



Compression Molding: The material is suitable for compression molding process



Valorisation of waste: We use feedstocks such as agro-waste , natural fibers, biodegradable and microbial polymers



Embossing: Products made with our material can undergo embossing



Texture: Products made from our material feature a matte finish with a natural fiber texture



Compostability: Products made from our material are both industrially and home compostable, depending on the end applications



Aesthetics: All our products can be tailor made with biobased color masterbatches on request

Current feedstocks used for our materials



Bamboo Fiber



Coconut Fiber



Tender
Coconut Husk



Seaweed



Citric fruit by
product



Brewery spent
grains



Rice and
Wheat husk



Areca nut



Coffee and
Tea grains

Cutlery



**Matte Finish with Natural
Fibers Texture**



**Has passed overall and
specific migration test for
food contact as per FSSAI
specifications**



**Available in different
designs**



**Home compostable and
Industrially compostable
grades available**



Beverage Cups



Can be used for cold beverages and
at room temperature
(*Note : Tests are currently underway for
hot beverages)



Biodegradable color
masterbatches can be used
to provide different colored
cups



Customised designs
available



Bottle Caps



Leak proof



Caps for water bottles,
falcon tubes et.al.



Home compostable and
Industrially compostable grades
available

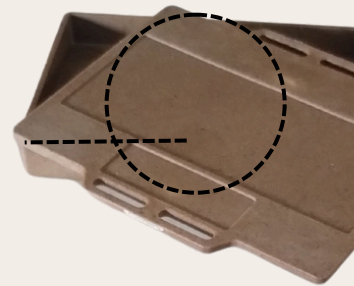
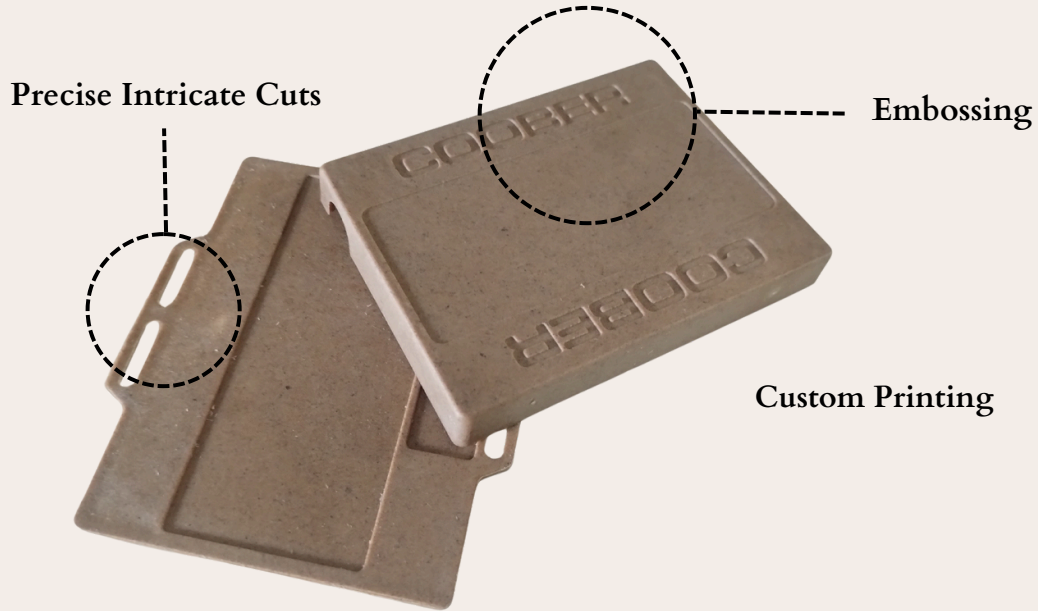


Leak Proof with Liquid
content





Visiting Card Holder



Home compostable and
Industrially compostable
grades available



Matte Finish with
Natural Fiber Texture



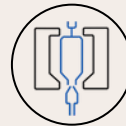
Material in form of granules



Granules are
Suitable for



Injection
Molding



Extrusion
blow Molding



Compression
Molding



EARTHWORKS™

Bio-composites made from agro-waste and biodegradable polymers

Product Data

Composition: Agro-waste fibers and biodegradable polymers.

Typical Properties : The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Sr. No.	Name of the test	Test Method	Unit	Result Obtained
1.	Melt Flow Index (190°C, 2.16 kg)	-	g/10 min	19.50
2.	Density @ 25°C	ASTM D 792	g/cc	1.23
3.	Water Absorption	ASTM D 570	%	0.61
4.	Tensile Strength @ Yield	ASTM D 638	MPa	24.3
5.	Flexural Strength	ASTM D 790	MPa	39.1
6.	Compressive Strength	ASTM D 695	MPa	24.6
7.	Impact Strength (Notched Izod)	ASTM D256	kJ/m ²	1.5–3.4
8.	Embodied carbon footprint	CIBSE TM65	Kg of CO ₂ e	1.647

Food Contact: Passed Overall migration and specific migration as FSSAI specifications.

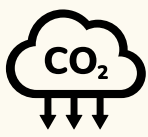
Storage and Transportation Storage < 45 °C. Protect from moisture. Store in a closed container. Keep in dry conditions and avoid exposure to high humidity and rain. Keep away from direct sunlight.

Supplied as: Granules

Applications: For Injection Molded Parts



Impact of choosing our products



1kg of our Earthworks material has a 30% to 40% lower carbon footprint than conventional plastics



Carbon Emission Equivalent of 1 Kg of Our Granules is equivalent to



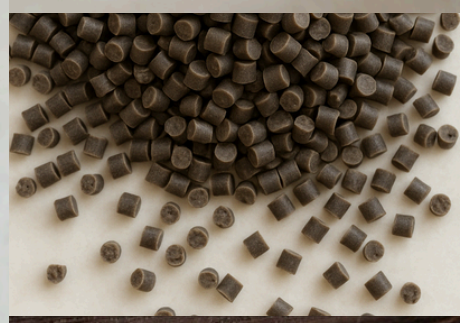
**6 Liters
of Water**



**15 Kms
of travel by an
Airplane**



**8-9 Pairs
of clothes
Ironing**





Get in touch!

Hope for a long term association



+91-9886996673



trupti.arabatti@earthworks.bio



www.earthworks.bio