

# **Biobinder Data Sheet**

## **Product Description**

Biobinder is an eco-friendly binding solution for paper, paperboard, and moulded pulp products. Biobinder is made of plant-based chemicals, and it imparts high water resistance and strength to the finished product.

Properties	Value	Unit	Test Method/Standard
<b>Biobinder solution</b>			
Color	Dark brown	-	-
Product form	Liquid (aqueous based)	-	-
Odor	Slight woody odor	-	-
Biobinder-treated paper			
Thickness	120	μm	-
Grammage	65	g/m <sup>2</sup>	TAPPI T410
Tensile (Dry)	3.22	kN/m	TAPPI T404
Tensile (2 hours-wet)	0.38	kN/m	TAPPI T404
Burst (Dry)	151	kPa	TAPPI T403
Cobb 120	30	g/m <sup>2</sup>	TAPPI T441
Biobinder-treated moulded pulp products			
Thickness	1-3	mm	-
Grammage	500-700	g/m <sup>2</sup>	TAPPI T410
Burst (Dry)	806	kPa	TAPPI T403
Burst (7 days-Wet)	393	kPa	TAPPI T403
Cobb 1800	90-100	g/m <sup>2</sup>	TAPPI T441
Water absorption (7 days)	46	%	ASTM D570





#### **Other Properties**

- 100% biobased (USDA Biobased)
- Biodegradable
- Repulpable
- Durable in a wet environment
- Safe for food packaging (*Letter Of No Objection* from Health Canada)

### **Examples of biobinder-treated moulded pulp products**

- Biopots
  - Stable in greenhouse environment for 3 months fully degraded in several months in soil.
  - No transplanting shock to plants
  - Fully plantable pots
- Food trays
  - Fresh produce such as cucumber, zucchini, mushrooms, etc.
  - Cold and dry food packaging
- Tree guards
  - Protecting young trees from animals and winds
  - Unlike plastic-based tree guards, guards will degrade naturally in field or forest

## **Application**

- Can be used with all types of fibre (Kraft, sulphite, TMP, recycled)

