

Flexstone® Eco-Material



No Wood



No Water



Green Substrate



Flexstone eco-material is an innovative printing material developed by Newlife New Material, which is produced by thoroughly kneading resin materials with 60-80% calcium powder. Flexstone paper is widely applied in various fields, including advertising posters, printing labels, writing papers, and eco-friendly packaging bags, demonstrating its versatility and sustainability.

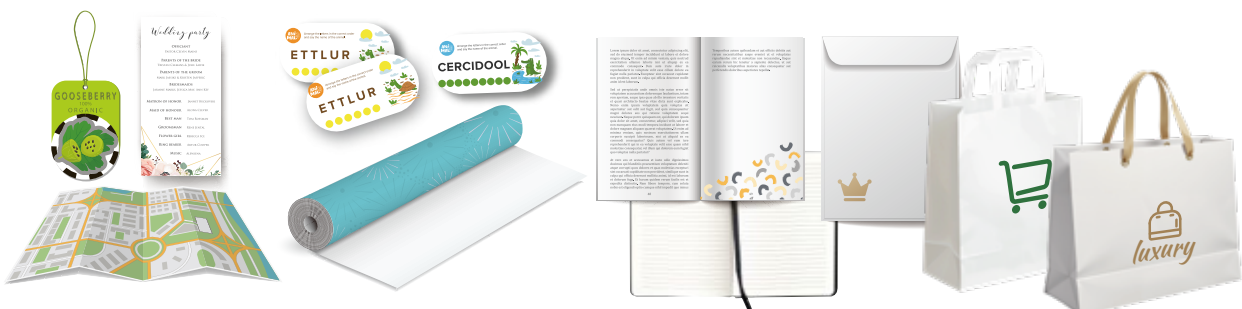
Product Types

- Opaque white flexible
- Opaque white Semi-Rigid Grade
- Translucent Semi-Rigid Grade

Specifications and Customization

- Density: 1.0 - 1.4 g/cm³
- Single-layer Thickness: 0.08 - 0.4 mm (Multi-layer lamination is supported)
- Roll: Width is 1600 mm
- Sheet: Die-cut according to customer requirements
- Printing: Offset, Flexo, Screen Print, Wide Format Inkjet Solvent/Latex/UV ink, Indigo, Toner, etc.

Application



Flexstone® Eco-Material - A Sustainability Deep Dive

Comparison	ART PAPER	VS	Flexstone® Eco-Material	VS	BOPP PEARLIZED PAPER (Synthetic Paper)
The materials and energy consumed to produce 1 ton	 60-80% Wood pulp 600-800 kg		 60-80% Calcium carbonate 600-800 kg		 80-85% Polypropylene (PP) resin 800-850kg
	 10-20% Filler (CaCO ₃ / talc) 120-200 kg		 20-40% Resin 200-400 kg		 15-20% Pearlescent MB (contains CaCO ₃) 150-200 kg
	 5-10% Binder (latex) 50-100 kg				 made from fossil-fuel derived plastic
	 20-35 ton water		 0 ton water		 3.5-4 ton CO₂ footprint
	 20-35 ton waste water		 0 ton waste water		
	 20 adult trees		 0 adult trees		

Flexstone® Eco-Material VS **Art Paper:** saves 20-35 ton water & 20 trees per ton
BOPP Paper: reduces 500-650 kg plastic & 2.4-3.5 ton CO₂ per ton

Benefits



Zero Water, Zero Waste

No water consumed during the production process, only some circulating water is used for cooling; No wastewater, exhaust, or residue emitted



Zero Trees, Zero Deforestation

No trees are harvested or consumed in the production process. No forests are disturbed, no biodiversity is lost.



65% Fossil Energy Reduction

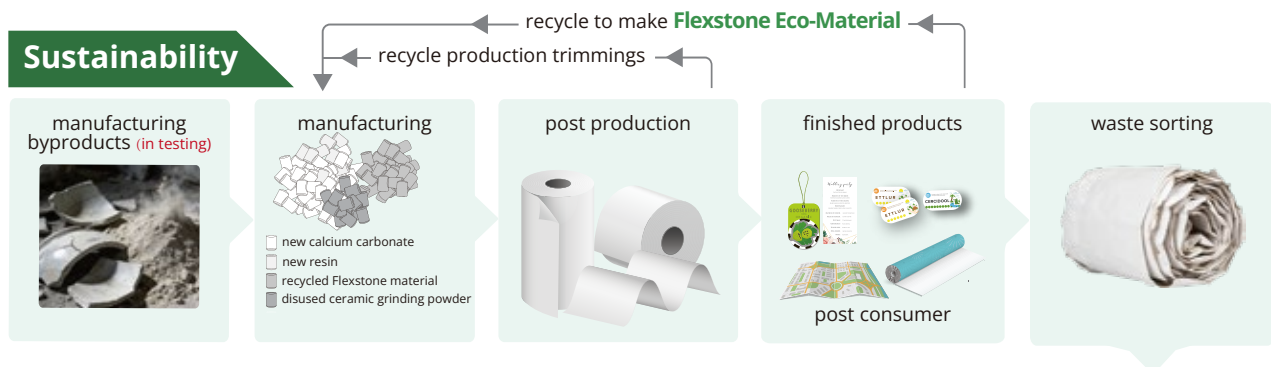
Compared to PP synthetic paper manufacturing processes



IPX8 Waterproof Rating

72-hour immersion test with zero delamination

Sustainability



How to Recycle used Flexstone Eco-Material?



Reprocessing: milling to recycle

Flexstone eco-material does not contain chlorine or plasticizer, and will not generate corrosive hydrogen chloride during recycling and milling process. When blending and recycling, it can be mixed with a variety of recycled plastic granules, and re-manufactured into pipes and other plastic products.



Waste to Energy: burying to generate steam or electricity

Flexstone eco-material only generates carbon dioxide, water, and Calcium powder during burning, no harmful gases or chemicals produced.



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