



INSIGNIA PROJECTS

ECO PACKAGING SOLUTIONS
Manufacturers of Paper Pulp Molded Trays

Dear Sir/Madam,

I hope this message finds you well. My name is **Salil Talwar**, and I am a Partner at **INSIGNIA PROJECTS**. We specialize in manufacturing sustainable packaging solutions for **electronics, industrial products, health and medical, beauty, consumer products such as fruit and vegetable trays, egg boxes, coffee carry trays, and organic nursery seedling pots**, among a variety of other product packaging. Utilizing recycled paper and cardboard, we pulp, mold, and after-press these materials into new, innovative formats designed to provide ultimate protection and prevent breakage during transit.

Our state-of-the-art manufacturing unit, located in Baddi, Himachal Pradesh INDIA, reflects our commitment to producing high-quality, sustainable pulp molded packaging. Our dedication to excellence is evident in our rigorous sourcing of high-grade raw materials. From design and forming to model processing, quality testing, and delivery, we provide superior packaging solutions for your diverse product needs, all while maintaining high quality and low costs.

At **INSIGNIA PROJECTS**, we are deeply committed to environmental sustainability. By choosing our pulp molded packaging, you are not only opting for superior protection but also contributing to a greener planet. We are dedicated to delivering innovative, sustainable, and customer-centric packaging solutions. Our products are designed not only to meet your packaging needs but also to add significant value to your business while promoting a more sustainable future. Additionally, we offer the flexibility to tailor-make our packaging solutions to your specific requirements, pushing the boundaries of what is achievable while ensuring optimal protection and preventing breakage during transit.

We look forward to doing business with a company of your standing.

Warm regards,

SALIL TALWAR
- Managing Partner

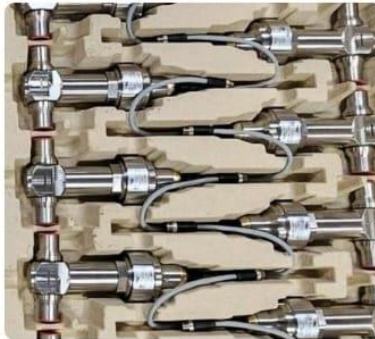
INSIGNIA PROJECTS

Eco Packaging Solutions - Pulp Molded Products

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A glimpse into our Product *range*...



and many more...

What is Molded Pulp?

Molded pulp, also known as molded fiber, is a form of biodegradable packaging material made from recycled paper waste. The process of creating molded pulp involves blending paper fibers with water to create a slurry.

This slurry is then shaped into various forms using molds and subsequently dried and hardened. The result is a lightweight, durable, and eco-friendly material that can be used for various packaging purposes.

Molded pulp is often considered a sustainable packaging material, as defined by the Sustainable Packaging Coalition, since it is produced from recycled materials, and can be recycled again after its useful life-cycle.

For many applications, Molded pulp is less expensive than expanded polystyrene (EPS), vacuumed formed PET and PVC, corrugation and foams.

What are the benefits of choosing Molded Pulp as your Packaging solution?

Environmental benefits:

FULLY BIODEGRADABLE

Unlike traditional EPS packaging, our products are fully biodegradable, significantly reducing landfill waste and environmental impact.

USE RECYCLED MATERIALS

We utilize recycled paper and cardboard, giving these materials a new life and reducing the demand for virgin resources.

ECO FRIENDLY

Our manufacturing processes are designed to minimize energy consumption and waste, further enhancing our environmental stewardship.

REDUCE CARBON FOOTPRINT

By using our packaging solutions, companies can significantly lower their carbon footprint, aligning with global sustainability goals and corporate social responsibility initiatives.

Advantages of pulp molded packaging over traditional Expanded Polystyrene (EPS) and other thermoplastic solutions:

STRENGTH & DURABILITY

Capable of withstanding weights in excess of 80 kg, pulp packaging ensures robust protection.

SPACE EFFICIENCY

Pulp packs are smaller and stackable, saving space and reducing delivery costs yet offering the same cushioning effect as EPS.

SUPERIOR CUSHIONING

Pulp outperforms EPS in drop tests, providing continuous protection due to its fibrous nature, unlike EPS that may crumble upon impact.

AESTHETIC APPEAL

Finer grades of pulp have a smooth, high-tolerance finish, matching the aesthetics of thermoplastic.

Molded Pulp v/s Alternatives

	MOLDED PULP PACKAGING	EPS / THERMOCOL	DIE-CUT CORRUGATED
MATERIAL	100% recycled paper	Resin based	Cardboard
SUSTAINABILITY	Recyclable, compostable and biodegradable	Non- recyclable	Biodegradable
PRICE	Stable	Volatile	Variable
CUSHIONING & VIBRATION	Excellent	Good	Inconsistent
SHIPPING & STORAGE	Easily nests	Does not nest	Requires labor assembly
CLIMATE TOLERANCE	Unaffected by extreme temperature or humidity	Temperature affects brittleness	Humidity affects performance
STATIC	Static neutral	Requires treatment with antistatic agents	Static neutral
PROTECTION	Geometry	Density	Complicated origami

Beyond the Basics: The Advantages of Molded Pulp Packaging

Molded Pulp Lowers Costs by 50%

Costs associated with the price of an item include transportation, warehousing, labor and design. We save our customers money and resources every day in each of these categories. Our molded pulp can reduce costs by as much as 50% when compared to other packaging materials. Since our molded pulp is made from 100% recycled newspaper and old corrugated waste (mostly post-industrial), our cost for raw materials have been very stable for years. We pass this savings on to you.

Molded Pulp Saves Valuable Space

We design the molded pulp packaging to nest and stack together. This allows for a greater quantity on each and every pallet enabling our customers to ship more per truckload. The cost savings for some parts can produce 50% less shipping volume, not to mention the warehouse space required for storage on your factory floor.

Molded Pulp Saves Valuable Time

Time is money and molded pulp packaging saves time at every step in the process. Expensive labor costs for assembly are eliminated. Shipments are less frequent which saves transportation time. Issuing fewer orders and invoices also leads to a reduction in administrative time. Our molded pulp is ready to use when it arrives at the point of packaging.

Molded Pulp is can be Customized

Molded pulp can be shaped into unique forms to stand out on store shelves. It can be customized in design, thickness and strength to precisely fit and protect various products. Its versatility allows for different shapes, making it ideal as an eco-friendly protective packaging solution.

Molded Pulp Respects the Environment

At INSIGNIA PROJECTS, we repurpose nearly 5 tons of recycled paper per day. Our molded pulp is produced from 100% discarded post-industrial corrugated waste and newspaper, otherwise headed for landfills. We produce environmentally friendly packaging meeting global standards and the expectations of environmentally sensitive consumers. Many global companies have implemented policies and procedures that foster sustainability. By using our packaging solutions, you can significantly lower your carbon footprint, aligning with global sustainability goals and corporate social responsibility initiatives.

What are the different types of Molded paper pulp?

With different types of molded pulp available, choosing the right option for your brand's needs is essential. This comprehensive guide will break down the different types of molded pulp packaging, their applications, and the key factors to consider when making your choice.

- ✓ *Wet-press molded pulp*
- ✓ *Semi-wet molded pulp*
- ✓ *Dry-press molded pulp*

1. Wet-Press Molded Pulp (Thermoforming):

Forming Process:	The wet pulp slurry is directly pressed into the mold using heat and pressure. The product dries and takes shape within the mold itself.
Drying Method:	In-mold drying through heat and pressure.
Surface Finish:	Smoothest and most refined finish, comparable to some plastics.
Wall Thickness:	Thinner walls possible due to high pressure, but complex shapes may be limited.
Applications:	Ideal for high-end packaging with a premium look (cosmetic boxes, electronic device trays, luxury gift boxes).
Advantages:	Smoothest finish, potential for thinner walls, high-quality aesthetics.
Disadvantages:	Requires complex machinery, high energy consumption for drying, may not be suitable for all shapes.

2. Semi-Wet Molded Pulp:

Forming Process:	The pulp is partially dried before being pressed into the mold while retaining some moisture.
Drying Method:	Additional drying outside the mold using air drying, ovens, or pressing.
Surface Finish:	Balance between smoothness and natural texture. Subtler fiber pattern compared to dry molded pulp, but not as smooth as wet molded pulp.
Wall Thickness:	Products typically have thicker walls compared to wet molded options.
Applications:	Versatile choice for a wide range of products (egg cartons, fruit trays, industrial cushioning, some outer packaging solutions).

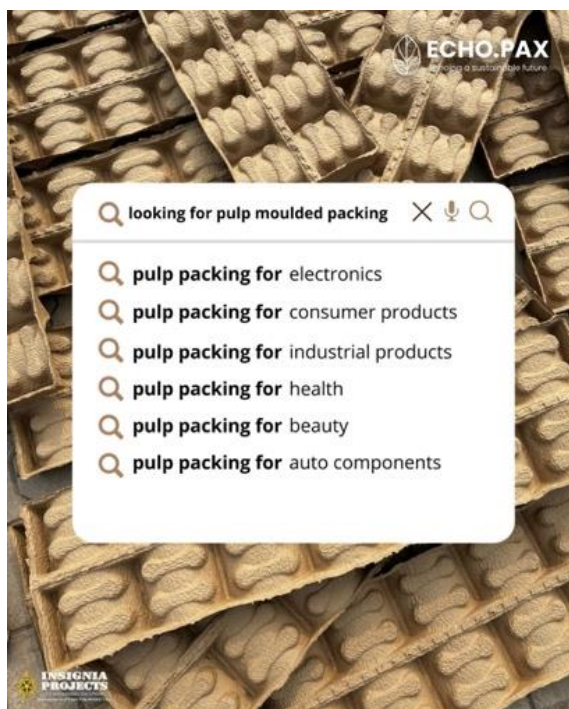
Advantages:	More efficient process with lower energy consumption, good balance between smoothness and texture, suitable for a wider range of shapes.
Disadvantages:	Not as smooth a finish as wet molding, may have thicker walls.

3. Dry-Press Molded Pulp:

Forming Process:	The dry pulp is pressed into the mold using high pressure.
Drying Method:	Minimal additional drying needed.
Surface Finish:	Roughest texture of the three methods, with a distinct fiber pattern.
Wall Thickness:	Products typically have the thickest walls due to lower pressure used during molding.
Applications:	Often used for industrial packaging, protective cushioning, and some low-cost disposable products.
Advantages:	Most efficient and cost-effective process, good for basic shapes requiring strong structure.
Disadvantages:	Roughest surface finish, thickest walls, limited aesthetic appeal.

How to choose the right molding option for your brand?

Here are some key factors to consider when selecting the best type of molded pulp packaging for your product:



Desired Finish:	Do you need a smooth, premium look (wet-press) or a more natural, textured aesthetic (semi-wet or dry-press)?
Product Protection:	Consider the level of protection your product requires. Thicker walls (semi-wet or dry-press) might be better for fragile items.
Shape Complexity:	Wet-press molding may have limitations with highly detailed shapes.
Sustainability:	While all molded pulp is eco-friendly, semi-wet offers a good balance between efficiency and resource consumption.
Cost:	Wet-press molding typically requires more complex machinery, leading to higher costs compared to semi-wet or dry-press options.