

CUSTOM MOLDED PULP Q&A

✓ **What exactly are Molded Pulp parts made from?**

- 100% Recycled – Made from used corrugated and newsprint
- Biodegradable - The US Environmental Protection Agency defines Biodegradable as: The ability of a substance to be broken down physically and/or chemically by microorganisms
- Our parts are produced by creating a slurry made from mixing used corrugated and newsprint with water. The slurry is then pulled through a tool that molds the part, then dried

✓ **What type of Molded Pulp is this?**

- Our products are referred to as Thick-wall and range in thickness from 3/16" to 3/8"
- Parts are produced using a single tool, leaving the front side of the part reasonably smooth and rough on the backside

✓ **What are target applications for Molded Pulp?**

- Annual volumes of around 20,000 pieces or more
- Weights ranging from just a few pounds to over 50 pounds
- Excellent shock absorption and compression strength
- Void fill, Blocking and Bracing
- Not ideal for light-weight and/or highly fragile items

✓ **What types of packaging material does Molded Pulp typically replace?**

- Foams including: expanded polystyrene, aka eps or styrofoam, foam in a bag and foam in place
 - These foams
 - Cannot be easily recycled
 - Are not seen as environmentally responsible
 - Require more space because parts do not nest



To learn more about Custom Molded Pulp, contact our product protection experts today!

Corrugated die-cuts

- Highly labor-intensive
- Not molded to fit contours of the item
- Can require multiple parts

Honeycomb

- Parts do not nest and require more space
- Not molded to fit contours of the item

✓ **How can I get an idea on what Molded Pulp parts will cost?**

- A price estimate can be provided in just a few days once we receive your product and/or a dimensioned drawing and annual volumes

✓ **What is the timeline for creating my new Molded Pulp parts?**

- Assuming the above ballpark pricing meets your requirements, we will require a sample of the part to design the tooling and provide a formal quote
 - Samples
 - Once you have approved the design and pricing, we will require a Purchase Order for the production of samples to begin
 - Prototyping of samples can typically cost between \$1,700 - \$2,000
 - A limited number of sample parts will be provided at no charge approximately 6-7 weeks from the date we receive the above PO
 - Production
 - Production can be initiated once we receive approval of samples and a Purchase Order for production of parts to begin
 - Full production of parts require initial fixtures and set up. These costs typically range between \$3,800 to \$5,500
 - Approximately 6-8 weeks from the date we receive the above PO

✓ **How can Molded Pulp parts be disposed of?**

- Since they're produced from 100% paper products, parts can easily be re-entered into any paper or corrugated waste stream

✓ **To which product applications does Molded Pulp apply?**

- Many E-Commerce items
- Containers
 - Bottles, jars, and cans
- Automotive parts and accessories
- Exercise equipment
- Outdoor equipment

- Small engines
- Power tools
- Industrial B2B products
- and more!

✓ **What are the advantages of using Molded Pulp in your packaging?**

- Biodegradable
- Easily recyclable
 - Same as any paper-based product
- Nest-able
 - Requiring less space
- Customizable
 - Provides optimum product protection
- Transit Testing
 - Great Northern has a **ISTA® 6 Certified Laboratory**
 - Able to conduct
 - ISTA 1 Series
 - ISTA 3 Series
 - ISTA 6 Series

