

## **Explore Vantage Plastics Capabilities:**

The Engineering Design Process is closely followed by Vantage Plastics as well as other Great Lakes Bay manufacturers. Thermoformina

Identify the Problem: Identify the Need and Constraints	CREATE and Try It Out: Build a prototype,
Vantage Plastics works closely with to understand the needed product.      Application Engineers must	On to tooling! The first prototype is made of  It is a rough draft that must pass customer review and inspection.  A prototype is very important to ensure the product is and it saves for the customer. Once the customer is a tool is made from
effectively with customers to make sure all of the processes meet the customer needs.	<ul> <li>Again more samples are produced for customer inspection.</li> <li>Revisions are made and when everyone is happy the product goes to</li> </ul>
Explore and Design: Brainstorm ideas, Collaborate, Develop Solutions  • The Sales Engineers take over to develop	Materials Management is charged with finding the right material to fit the product. Vantage, along with the other plastics manufacturers in the Great Lakes Bay Region, demonstrates a high level of responsibility concerning materials. Vantage customers may be offered
a design concept and a price quote along with production samples toand	
Next, Project Engineers enter the process with the capabilities of modeling and analysis to provide better visualizations of the produce and avoid costly later.	<ul> <li>Sheet plastic is produced on-site. Thickness, dimensions and color choice are properties considered here. These sheets are used in the process of</li> </ul>
	Thermoforming is the process of taking a of plastic and forming it into a contoured part or shape. The flat sheet of plastic is in a large oven. The hot plastics is then stretched over a where pulling a vacuum on the cavity forces the sheet to the contour of the mold. At this point in the process the sheet begins to and the plastic sheet becomes rigid again as it takes the of the mold.
TEST, EVALUATE o	and Make It Better:
product is test for	Managers put the product throughtesting. The control of the product is ready for full production.
Vantage again d	lemonstrates a commitment to sustainability. They specialize in and the management of materials after
	They offer a guaranteed mafter the useful life of their products. They provide this service to other nave plastic which is recyclable.



