

How Do They Do That (Term Paper) Individual Module: 4	TEL 204: Polymer Molding & Forming Dept. of Technology	Student Name:
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Overview:

There are thousands of cool plastic products that surround us each day. Plastic probably touches our lives more frequently than all other materials combined. You are to research, in depth, a plastic product (or type of product) and write about it's development and manufacture. You can also focus on a specific molding process such as blow molding, thermoforming, etc. Alternatively, you can research a specific industry, and write about the use of plastic and it's impact within that industry. Finally, you can research a specific type of plastic and write about it's development, manufacture, use, and impact. You will submit a paper version as well as a digital version on a CD. You must site at least 8 sources and only half of the sources may be internet sites. See <http://tryon.oswego.edu> for additional links and helpful resources. This is the only module that may be turned in on the last day of class. You will make a formal presentation on this topic. Bundle your electronic presentation on the same CD as you tern paper.



Your 10 page paper will conform to the APA style manual.

Possible Topics.

A Plastic Product *(trouble)	A Molding Process	Plastic in an Industry	A Specific Plastic
CD jewel cases Modern snow boards Etc. CAUTION: ADVERTISEMENTS ARE NOT SOURCES!	Blowmolding, thermoforming, injection molding, rotational molding, etc. etc. etc.	Automotive industry Polymers in medicine Product packaging Aerospace Etc.	PVC – Friend or foe? Biodegradable plastics. Carbon Fiber Reinforced Plastic–What is the fuss about? Etc.
Try to obtain photographs of the molding process. Take a tour of the manufacturing facility. Explain in detail what polymers are used and why. Explain what tools/equipment is used.	Research the equipment, procedures, cycle times, materials, etc.. for a specific molding process. Highlight the history, products produced, costs, and illustrate the process.	First use of plastics in this industry. Most common current uses. Highlight specific applications. Discuss the impact of plastic on the industry. Advantages, disadvantages, future trends. Other impacts.	What is the specific plastic and how is it made. Where is it used? What impact (good and bad) has it had. What specific applications and impacts have there been and what are we going to see in the future.

Grade:

Sources (100)	English/Written Form (100)	Depth of Content, Impacts, Materials, Etc. (500)
Grade:		