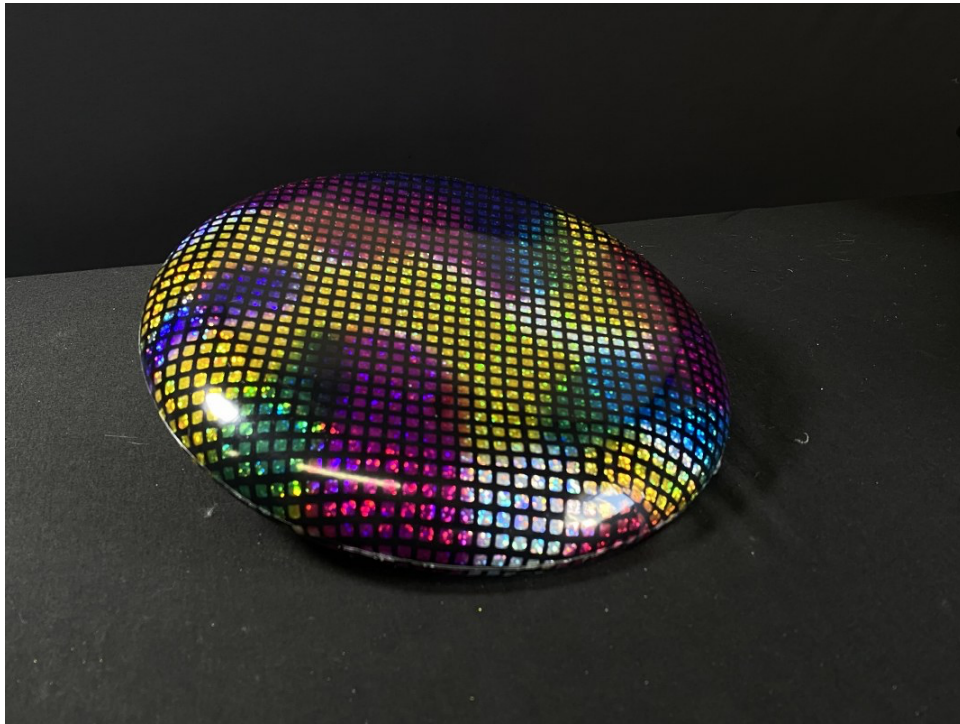


NO WASTE – School Plastic recycling project – FRISBEE



Aim

To demonstrate to school age children that old cloths and plastic bags can be made into something really desirable. Processing plastic is really a relatively simple exercise in applying heat and pressure.

Process

The students will bring a selection of old school uniforms and clean plastic bags, we will go through the bags and explain the various plastic types and choose the ones we need for the moulding.

Using a template, the students will cut the cloth and plastic in the required shape and interleave the cut materials, generally about 6 layers of fabric and 18 layers of plastic.

The students will place the bundled plastic into the mould and secure the bundle into the mould with a silicon rubber block. A steel plate will then be placed on top of the steel plate and clamped together.

Talon / USQ staff will then place the mould into a small oven (that we will bring to site) and heat the mould to 145 deg for 30 min. Talon / USQ staff will then remove the mould and put in a bucket of water to cool.

Students can then disassemble the mould and remove the part. Staff can then trim the part with a sharp knife and the students can sand the edges smooth.

The part will be trimmed by staff and then it is ready to fly.

Summary

We have 2 moulds so we should be able to make a couple of Frisbees. And if the teachers are up for it they can keep the moulds and equipment for a while to run it with other students.

If it is going well students should start to look at plastic waste as a resource and that the process of making plastic products is actually not that mysterious.