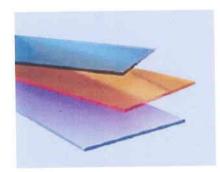
# PRODUCT DESIGN

# Research-materials and processes

## Focus on materials



### Acrylic plastic:

Uses:

Sign and display industry, baths, machine guards, furniture, roof lights, glazing, car light lenses.

Note:

Scratches easily and tends to splinter. Polishes well. Breakage resistance is 6-17 times greater than glass Trade names: Perspex, Plexiglas's.



### Polystyrene (High impact)

Uses:

Low cost and disposable items produced by vacuum forming or injection moulding, internal / secondary glazing, toys, model kits, and refrigerator linings.



### Polypropylene

Heas

Chemical resistant containers, hinges, bottle crates, medical equipment (can be sterilized), syringes, food containers (microwaveable), nets, animal feed hoppers, storage boxes with integral hinges.

Note: Naturally pale pink/white in colour

Which moterial would be best to use and whis.

Acrylic has the advantage of being reachly available, easy to machine and responseably toward, but it has the disadvantage of tending to splinter.

high impact polystyrene could also be used but is only available in 2mm thick sheets

Polymopyline is available for insection molding process can not make large objects bigger than 50×30×6~m

but it could be used for other smaller parks.