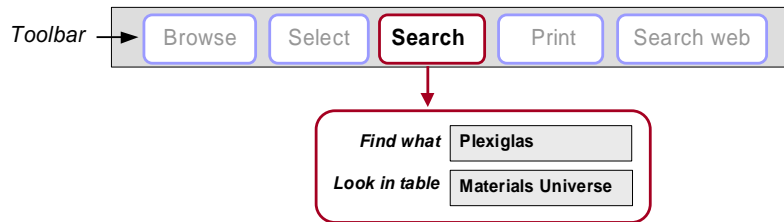


Searching Exercises

Complete the following “searching” exercises to practice using the Cambridge Engineering Selector software.

Searching lets pull up any record that contains the word or word-string you enter in the search box. It is really useful when you only know the trade name of a material or process, or when you want to search for materials that are used to make a particular product.



2.1 Find the record for PLEXIGLAS. What is its proper name? Can it be injection molded? (Click on the Process Universe link at the bottom of the record to find out.)

2.2 What is GORETEX?

2.3 What are SPARK PLUGS made of? Search on the name and find out.

2.4 You want a material for a sharp blade for a knife or cutting tool. Search on CUTTING TOOL to find materials that are used to make industrial cutting tools. You will find that some are metals, but others are ceramics – hard ceramics are good because they don't wear, but they are expensive and hard to make.

2.5 Find the record for CFRP by searching on the name. What is its full name? What is its density? Is it denser or less dense than MAGNESIUM?

2.6 Find what the process RTM is all about by searching on RTM. Since it is a process, not a material, you will have to change the table in which you search from Materials Universe to Process Universe, in the box immediately below the search box.