

## CHAPTER 8 Engineering materials

### Test your knowledge 8.1

- (a) A
- (b) B
- (c) F.

### Test your knowledge 8.2

Copper is an excellent conductor of electricity. In C copper is used for the transformer windings; in E it is used as copper tracks (etched into a copper laminated glass-fibre board); in D it is used in the PVC insulated stranded copper wire that connects the power supply to the load.

### Test your knowledge 8.3

Any three of the following:

- ABS is an electrical insulator
- ABS is relatively light in weight
- ABS can be easily moulded into a complex shape
- ABS is easy to keep clean
- ABS is resistant to impact and does not crack easily.

### Test your knowledge 8.6

A ceramic *refractory* material would be needed. This can withstand the high temperatures present inside a furnace and acts as a good thermal insulator (keeping the heat inside the furnace where it is needed).