



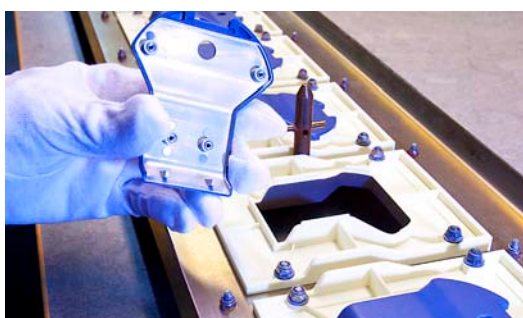
METALLISING

AMB has been metallising plastic since 1970. We now have five vacuum chambers for conventional vacuum metallising, as well as a sputtering unit specially built for metallising downlighter reflectors.

During metallising the plastic part is coated with a thin layer of metal, usually aluminium, although other metals can also be used. The layer thickness varies between 50 nm and 8 µm, depending on the application. Thin layers are beautifully reflective, while thicker layers are electrically conductive and can therefore provide EMC shielding and reduce the SAR value of electronic equipment.

Partial metallising is often required to provide screening for electronics or to achieve combination effects with our multi-component painting. To ensure that metallisation is only applied where it is needed, parts must be masked very carefully. We develop the special masks that are needed, in metal or injection moulded plastic.

Our handling operations are highly efficient and use as few manual stages as possible. In the manufacture of downlight reflectors, the reflector is metallised immediately after moulding and is then coated with



a scratch-resistant clear lacquer in our fully automated painting line. The entire process, from plastic granules to finished reflector, takes less than 60 minutes.

AMB takes an active role in technical development, and one of our vacuum chambers is dedicated specifically to test runs and development projects.

Any material that can be painted is also suitable for metallising, and in addition to plastic, this works particularly well on metal and glass, for example. Most metal finishes can be replicated, but the big sellers are undoubtedly gold, silver and chrome finishes.

Our list of customers includes Frilight, Sjöbo Bruk, Faluplast, Fagerhult, Høvik Lys, SenseAir and Gambro.

