

Statement on:

**Material Compatibility of
Sekusept aktiv,
a manual reprocessing instrument disinfectant,
against Plastics**

The test behaviour of **Sekusept aktiv**, a manual reprocessing instrument disinfectant, against different plastics gives reference to the general evaluation in respect of corrosion and material compatibility in practical use.

Plastic plates are dipped into the recommended product solutions according to standardized guidelines and the influence of **Sekusept aktiv**, a manual reprocessing instrument disinfectant, on these plates is investigated.

Following materials have been checked:

PC	Polycarbonate
PMMA	Polymethylmethacrylat / Perspex
PE	Polyethylene
PP	Polypropylene
ABS	Acrylic-nitrilbutadien-styrene
PA	Polyamide
PVC, firm	Polyvinyl chloride
PS	Polystyrene

Test guidelines:

The plastic plates (50 x 100 x 3 mm) are weighed on an electronic analytical scales and solitary dipped into the recommended product solutions created out of tap water with 16 °d and 2,0 % of **Sekusept aktiv**, a manual reprocessing instrument disinfectant, at room temperature. Each plate is placed solitary in a glass receptacle for excluding any external influence.

The product solutions is changed and renewed daily.

The test period is lasting 3 weeks and next to control measurements every week the plastic plates and the product solutions are checked visually.

Weight loss or swelling in [%] of each plastic plate is resulting in the difference of the weight after the test and the original weight indicating corrosion susceptibility and material compatibility.

For better evaluation of the real product impact the test is carried out in parallel using all plastic plates dipped in tap water with 16 °d.

Results:

The plastics Polycarbonate, Polyethylene, Polypropylene, ABS, Polyvinylchloride, and Polystyrene showed very good material compatibility.

Slightly higher swelling could be measured with Perspex, and Polyamide, but it was comparable to the behaviour in water. Swelling of these materials in water based solutions is well known and is reversible after short time of drying.

For Polycarbonate and Perspex (PMMA) no tendency of stress cracking could be observed and also the transparency of the whole surface was preserved.

In general the dipping results of sawed plastic plates can not be transferred to injection moulded or machined parts, because material compatibility can be influenced by pre-treatment and production.

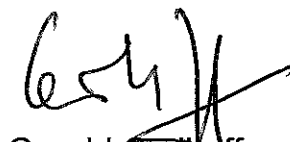
The material compatibility of **Sekusept aktiv**, a manual reprocessing instrument disinfectant, against plastics can be rated as very good when applied in the recommended concentration.

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