

# ProSEP

EFICIENȚĂ și PROFESIONALISM

# SIMONA



Informatii despre produs  
**SIMOCCEL-AS**

## Advertising

Signs  
Displays  
Exhibition stands  
Photo mounting

## Others

Transport containers  
Floating constructions  
Pattern making  
Panelling

### 1.3 Antistatic effect

Plastics are good insulators. With regard to some applications, they can absorb and hold dust particles by electrostatic charge. For this reason SIMONA have introduced SIMOCEL-AS to reduce dust absorption as far as possible and to allow easier processing, printing, bonding, etc.

The antistatic effect can be achieved in two ways:

1. Surface applied antistatics only have an effect on the surface of the material, wearing down and becoming undetectable.
2. On SIMOCEL-AS the antistatic effect comes from within the sheet, distributing and redistributing itself to the surface. The antistatic effect used by SIMONA creates a hydrophilic coating on the surface. This coating absorbs the conductive charges and preserves the antistatic effect for the lifespan of the SIMOCEL-AS material.

After cleaning the material the antistatic effect always replenishes itself to the surface of the material by as much as is necessary to recreate the effect. For this reason the surface is not expected to smear in the course of time.

Conductivity depends on the surrounding atmospheric humidity. In dry air the figures are closer to  $10^{12}$  Ohm. In a humid atmosphere figures of up to  $10^9$  Ohm are reached.

Measurements of the surface resistance showed an increase in conductivity on the colour layers. Therefore conductivity exists through the colour layers without the layers being disturbed or influenced in any other way.