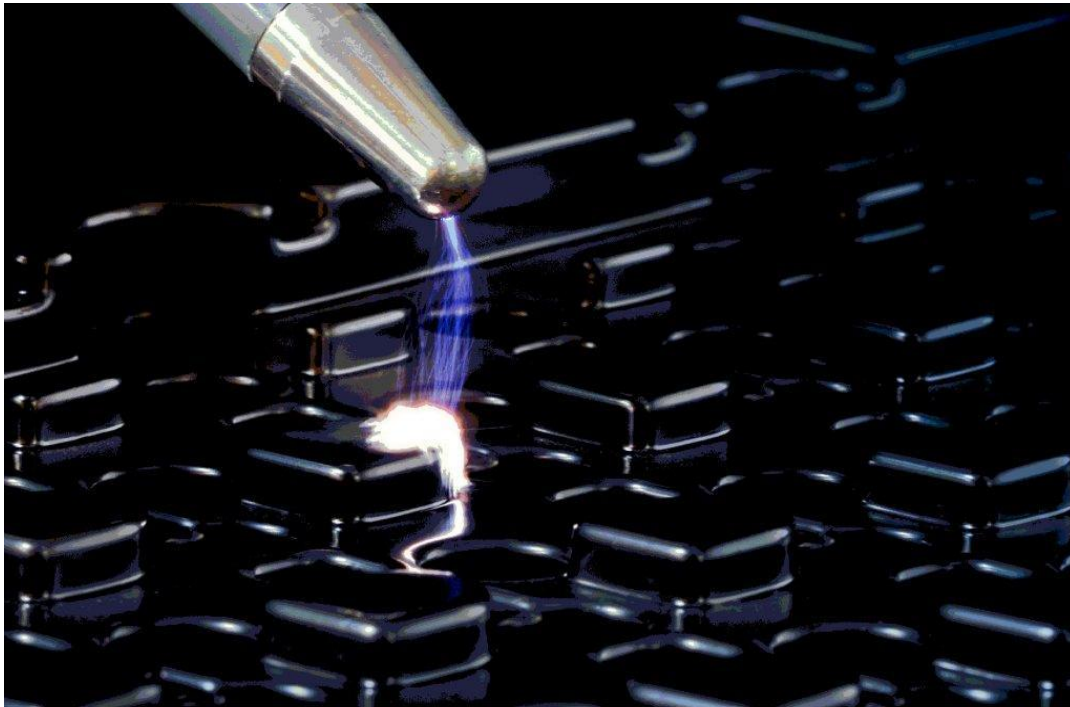




E-STAT®
24-301-xxxx

The Eurostat static dissipative PS



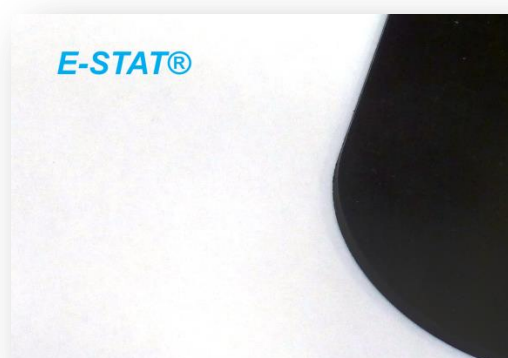
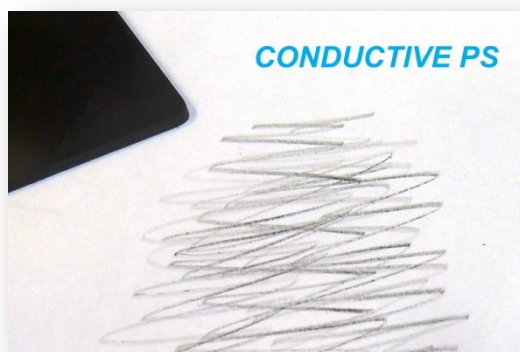
Two-Point resistance measurement was performed according to IEC 61340-5-3:2010.

The test objects were conditioned during more than 48h in 23°C (± 2°C) and 12% RH (± 3% RH). The measurements were performed in the same climate.

All test objects were measured:

- Cavity to cavity: $3.5 \times 10^{10} \Omega$ to $5.4 \times 10^{10} \Omega$
- Inside cavities: $8.0 \times 10^9 \Omega$ to $4.8 \times 10^{10} \Omega$
- Cavity to metal plate: $3.5 \times 10^9 \Omega$ to $8.5 \times 10^9 \Omega$

- No sloughing thanks to the absence of carbon powder
- Clean fillers No heavy metal contents (<100 ppm)



Product specifications

Material:	Dissipative PS
Colour:	Black with green strip (optional)
Dimensions:	See drawing
Thickness:	0.6 mm to 5 mm before thermoforming
Shelf life:	Permanent
Heavy metals:	<100 ppm RoHS compliant

Electrical Properties

	Test standard	Results
Surface resistance Rs	IEC 61340-5-1	Typical $5 \times 10^9 < R_s < 5 \times 10^{10} \Omega$
Volume Resistance Rv	IEC 61340-5-1	Typical $< 10^{10} \Omega$
Point to Point Resistance Rpp	IEC 61340-5-1	Typical $5 \times 10^9 < R_{pp} < 5 \times 10^{10} \Omega$
Static Decay Time Dt	IEC 61340-5-1 IEC 61340-2-1	Typical < 1 sec



Material properties

	Test Method	Unit	Values
Water absorption	ISO 62	%	< 0.1
Melt flow	ISO 1133	g/10min	4
Tensile strength at yield	ISO 527	MPa	24
Tensile strength at break	ISO 527	%	60
Tensile module	ISO 527	MPa	1850
Izod Impact strength <ul style="list-style-type: none">+23°C-3.2 mm thickness+23°C-4 mm thickness-30°C-4 mm thickness	ISO180/4A ISO180/1A ISO180/1A	J/m KJ/m2 KJ/m2	125 10 6.5
Rockwell Hardness	ISO2039/2	/	L65
Vicat Point	/	/	99°C
Thermal expansion, linear	ASTDM D696	/°C	9.10-5
Shrinkage	/	%	0.4-0.7
Flammability	UL94	/	HB

Material approved by SP Technical Research Institute of Sweden



APPROVAL

FOR ESD PROTECTIVE PRODUCTS ACCORDING TO IEC 61340

Validity of the approval

Until 2015-12-19.

Holder of the approval

Magnab Eurostat AB, Nyköping, Sweden

Category of product

Trays

Products

Manufacturer/ supplier	Type designation	Description
Magnab Eurostat AB	24-217-xxxx	Black dissipative trays

The trays fulfilled requirements as electrostatic dissipative (D).


Documentation for approval

Test report FX212047.

Conditions for approval

General conditions, according to SP-Method 2472, for approval and registration of approved products with regard to ESD-protection qualities.

SP Technical Research Institute of Sweden
Electronics – Product Safety


Anders Nilsson
Technical Manager


Ingvar Karlson
Technical Officer