

Safeshield[®] - Shipping Boxes (Electrostatic Discharge Shielding) (Part No.: 5510.9xx)

Safeshield, shielding cardboard boxes, provide a high shielding performance against electrostatic discharges and fields due to their special shielding layer.
For storing and shipping Electrostatic Sensitive Devices (ESDS)

Features:

- High shielding performance against electrostatic discharges and fields
- Inner and outer permanent static dissipative layers
- Complies with IEC 61340-5-3
- Good mechanical properties
- Reusable and recyclable 
- Corrosion free
- No outgasing of the „inner conductive layer“ and the blue „static dissipative layer“
- Colour: blue (non- fade) with ESD and RESY symbol



Product qualification according to IEC 61340-5-3:

	Test method	Limits	Typical values
Surface resistance R_s	IEC 61340-2-3	$1 \times 10^5 \leq R_s < 1 \times 10^{11} \Omega$	$10^9 - 10^{10} \Omega$
Electrostatic Discharge shielding - Energy E	IEC 61340-4-8	$< 50 \text{ nJ}$	$< 1 \text{ nJ}$

Environmental conditions: $12 \pm 3\% \text{ RH}$ and $23 \pm 2^\circ\text{C}$ (conditioning $> 48 \text{ hours}$)

Physical properties:

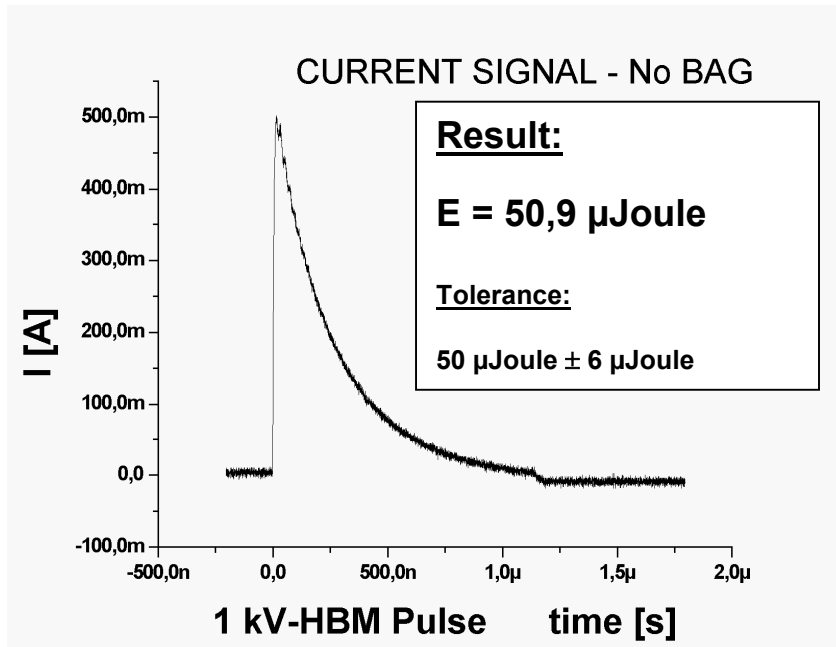
	Typical value	Standard
Burst resistance	860 kPa (B-flute) 900 kPa (E-flute)	DIN EN ISO 2759
Pierce energy	4,1 Joule (B-flute) 3,7 Joule (E-flute)	DIN 53142 Part 1
Edge squash strength	5,69 kN/m (B-flute) 5,21 kN/m (E-flute)	DIN EN ISO 3037
Abrasion resistance	Very good	DIN 54001/002

Other properties:

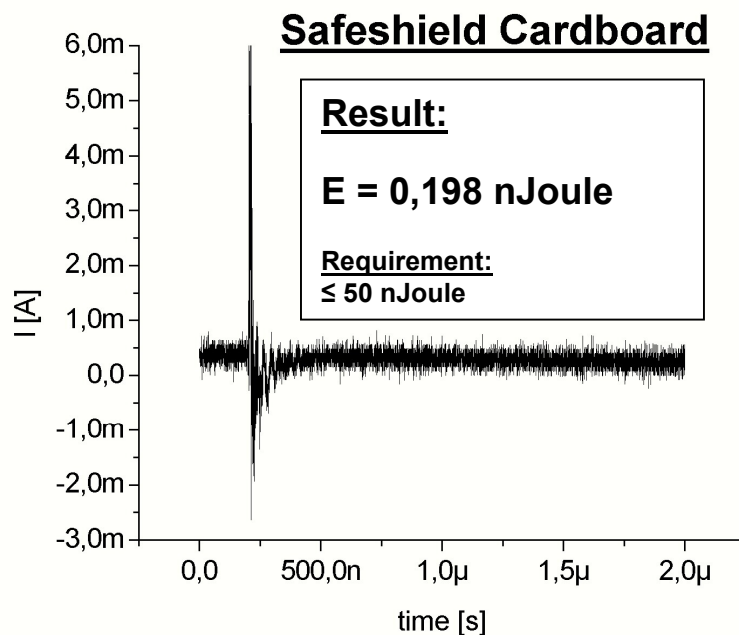
Corrosion	None	Weight	538 g/m ² (B-Welle) 514 g/m ² (E-Welle)
Galvanic reaction	None	Recycling	RESY 0032



Energy test according to IEC 61340-4-8
with 1.000 Volt HBM pulse



Current signal – ESD-Simulator without packaging
(HBM discharge with 1.000 Volts)



Current signal – Sample SAFESHIELD[®] shipping box with a dimension
28 x 26 x 2 cm (B-flute with 3 mm thickness)
(HBM discharge with 1.000 Volt)