

HIGHSHIELD® - Metallized ESD Shielding Bag

(Part No.: 3310.HS.x)



- Complies with IEC 61340-5-1
- "Metal-In" construction for electrostatic discharge shielding
- Outer layer - dissipative Polyester
- Aluminium metallized
- Inner layer - dissipative Polyethylene
- Heat sealable
- Standard print:
Product name, ESD symbol, recycling symbol and LOT-No.
- Recyclable



Mechanical properties:

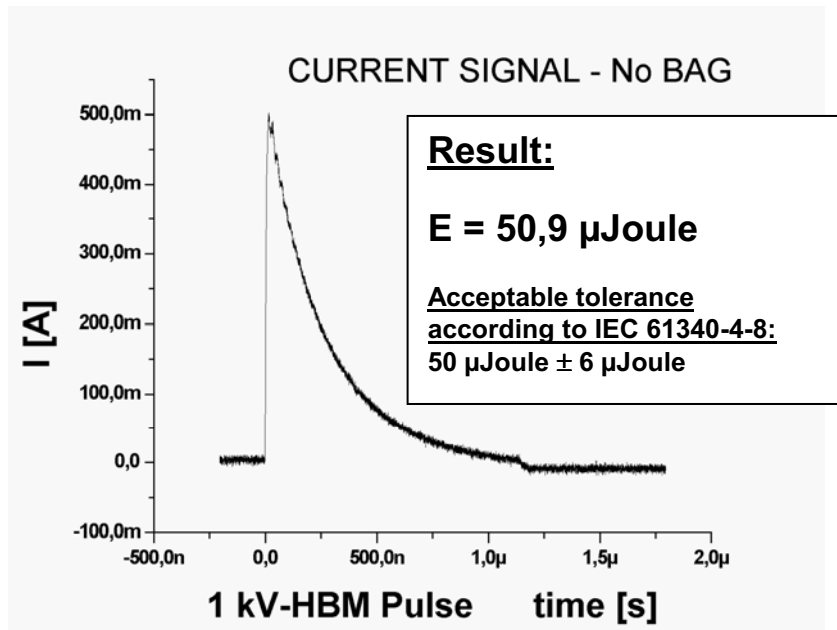
	Values	Test method
Tensile strength	28 N/mm ²	ASTM D882
Side seal strength	3 N/mm	ASTM D882
Puncture resistance	55 N	FTMS 101 C
Thickness	77µm	ASTM D882
Light transmission	40%	
Metallization	100 Ångstroem	

Product qualification according to IEC 61340-5-1 Ed. 1.0 (2007-08):

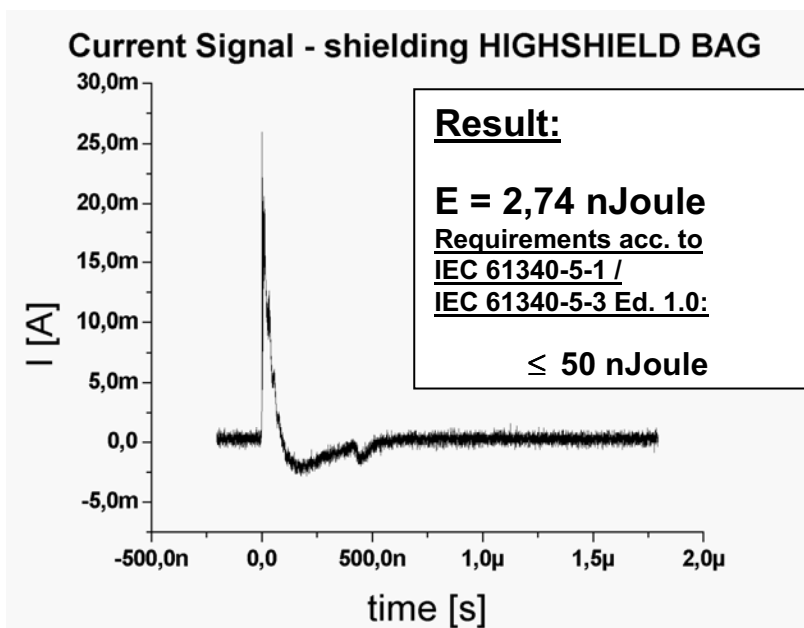
	Test method	Limits	Typical values
Surface resistance R _s	IEC 61340-2-3	$1 \times 10^5 \leq R_s < 1 \times 10^{11} \Omega$	$10^9 - 10^{10} \Omega$
Electrostatic Discharge shielding (ESD Shielding) - Energy E	IEC 61340-4-8 Ed. 1.0	< 50 nJ	< 10 nJ

Environmental conditions: 12 ± 3% RH and 23 ± 2°C (conditioning > 48 hours)

Energy test according to IEC 61340-4-8 Ed.1.0 with 1.000 Volt HBM pulse



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



Current signal – ESD-Simulator with Highshield bag (HBM discharge with 1.000 Volt)

$$\text{Energy } E = 500 \, \Omega \times t \times \sum_{i=1}^n I_i^2$$