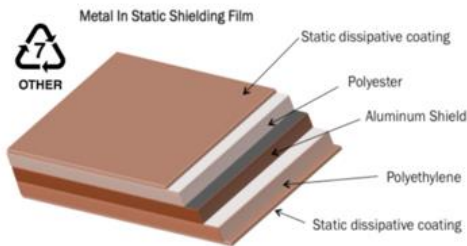
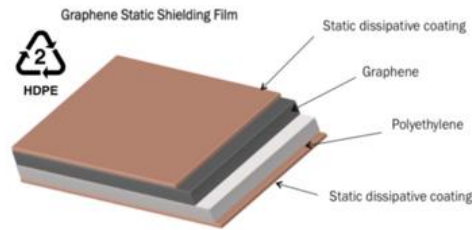


GXT – ESD Description

Graphene-XT holds a unique technology that allows to apply a thin multilayer coating of graphene over a wide range of plastic films, achieving different degrees of transparency. Our versatile and simple system allows to work in mild conditions and is compatible with continuous production using industry-level techniques.



- Extremely difficult to recycle
- Aluminum mining technology is a polluting process
- Standard production



- Possibility to recycle as a pure polymer
- Less layers in the ESD bag
- Reduction of one industrial step (lamination)
- High chemical stability
- Our graphene technology production greener than aluminum mining technology
- Tailor made

Figure 1: Comparison with traditional ESD bag with aluminum layer



Figure 2: In the left side, conventional ESD bag; in the right side, innovative graphene ESD bag



GXT – ESD made with this technology hold the following features

Transparency	80 % T
Electrical Resistance	$10^3 - 10^4$ Ohm
Electrostatic shielding	$E < 50$ nJ
Typical resistance of antistatic coating external/internal	$10^8 - 10^9$ Ohm
long-term stability	High, no oxidization
Mono-polymer	recyclable
Re-use	In industrial scraps

Due to the extremely low amount of coating material, which is anyway carbon based, at the end of its life GXT – ESD is a fully recyclable as polymer.

