

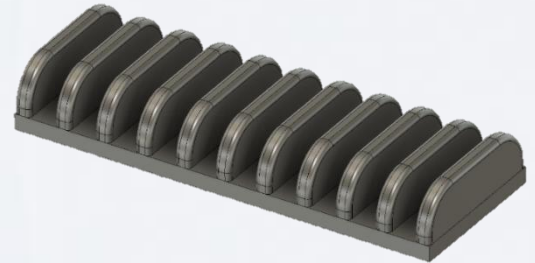
Reducing Carbon footprint

ESA Plastics Reduction Initiative.

Specification Sheet

Sustainable SWG Spacers made with Biocompostable materials

Plastic spacers are commonly used to separate spiral wound gaskets during transport to prevent damage to the sensitive graphite sealing surfaces.



ESA initiated discussions with companies to explore alternative renewable and circular material solutions to these plastic spacers.

These discussions have led to initial collaborations with innovative partners focused on pioneering sustainable material alternatives.

One such partner, **BIOPLASMAR**, is utilizing advanced materials engineering to develop biodegradable biocomposites derived from organic green waste within the local circular economy. This cutting-edge solution is poised to transform industries like horticulture, agriculture, construction, food, and packaging by replacing single-use plastics.



Key Features of the Biodegradable Biopolymer Solution:

- **Sustainable Origin:** Converts green waste into biodegradable pellets.
- **Environmental Impact:** Decomposes in soil after 20 – 30 weeks, depending on the type of soil, humidity, temperature and size of the product, enriching (as certified by TÜV-Austria) it while significantly reducing plastic waste and CO2 emissions.
- **Durability:** Offers a shelf life of several years, making it suitable for both short-term and long-term applications.

- **Regulatory Compliance:** Aligns with the upcoming EU regulation mandating all plastic packaging in the EU to be recyclable by 2030.
- **Ease of Adoption:** Compatible with existing injection molding equipment, facilitating seamless integration into current manufacturing processes.

Injection molded samples (500 pcs) have been made and presented to ESA members for evaluation purposes.

Bioplasmar's team is open to custom fit the material properties to your product requirements, to enhance sustainability without compromising functionality of processability. Samples of our typical compounds can be available on request.

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