

HOW TO FIND THE MOST SUSTAINABLE CORE FOR YOUR APPLICATION



Finding a sustainable core isn't just about choosing a suitable material that consists of recycled plastics, and that is recyclable. You must evaluate the manufacturing company's sustainability goals and how they plan to reduce their emissions. Because the way your supplier's business is conducted also affects your application's carbon footprint. Another essential factor is if your supplier uses a circular business model that reduces the use of raw material use and recaptures "waste" as a resource to manufacture new materials and products.



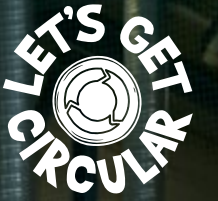


CHOOSE A SUSTAINABLE MATERIAL

- 1** When applied, sandwich solutions enable lightweight, flexible, and aerodynamic designs that reduce the fuel consumption of vehicles and vessels and open creative design opportunities. Looking at the overall life cycle, our products, regardless of plastic polymer use, also compensate for their carbon footprint in many applications thanks to the extremely long life they were designed for.
- 2** Today, the big focus on using post-consumer plastic for producing industrial products is limiting the use of post-industry plastics. But to reduce the carbon footprint, we must use both types and not downgrade them. For instance, a food-grade plastic bottle should ideally become a food-grade plastic bottle again in a closed-loop recycling process. It's also possible to use recycled plastic to produce new core materials or other products.
- 3** Two excellent examples of sustainable core materials made of recycled plastics, meeting environmental needs and commitments, are Divinycell PR, a sandwich core made of up to 45% post-consumer PET and additional post-industry recycled PET to boost performance. And Divinycell PL, our high-performance PET core material range that is recyclable and based on post-industry recycled PET.

CHOOSE A SUSTAINABLE MANUFACTURER

- 1** Besides the material, the manufacturer's carbon footprint and its ambitions within sustainability are important. By 2030, the world's CO₂ emissions must be reduced by 45%, and we must reach net zero by 2050. This means that companies urgently need to transform into low-carbon business models.
- 2** Diab is committed to the UN Global Compact, making a long-term statement to focus on our sustainable development continuously, actively work to reduce our carbon footprint and develop new ways to recycle and use recycled materials. We aim to become an ESG leader in our industry.
- 3** We are the only company in our industry reducing our carbon footprint in line with Science Based Targets. That means we have committed to a global program of companies reducing the carbon footprint in line with what is defined in the Paris Agreement to keep the planet below 1.5 degrees overheating.



BENEFIT FROM A CIRCULAR BUSINESS MODEL

- 1** A circular business model reduces energy and material use and redesigns materials, products, and services to be less resource intensive. It recaptures “waste” as a resource to manufacture new materials and products. It’s all about reducing, reusing, and recycling.
- 2** Reducing means using less raw material, new innovative materials, less energy and resources, and cutting back on the waste generated when the core material is produced.. Reuse means finding new ways to use things that otherwise would have been discarded. And recycling means turning the waste created when the core material is produced, or taken back at end of life, into something new and valuable (preferably raw material when making new core material).
- 3** The materials you buy affect the applications you make and sell. Diab is implementing a circular business model to start a chain effect. Instead of a linear model where materials travel through the system in one direction, it could be circular both in sales and sourcing. For example, if we can reuse post-industry plastic waste from our own and customers’ processes, we can reduce carbon footprint and waste handling costs.
- 4** The effort to reduce our carbon footprint goes beyond the single company. Supporting our suppliers in lowering their emissions also benefits our products which, in turn, benefits our customers. It’s a chain effect that works in both directions.





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ALWAYS AT THE CORE OF YOUR *SUSTAINABLE* SOLUTION

Are you interested in knowing more about how to make your application more sustainable? Book a free consultation with one of our experts at JEC World 2023.

[Book a free consultation](#)