



PRESS RELEASE

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Renewi and Refil develop new 3d printing filament made from recycled refrigerators

International waste-to-product company, Renewi plc (LSE: RWI) is working with Dutch recycling filament specialist, Refil to produce high quality and unique 3d printing filament made from recycled refrigerators.

The innovative product is made in the Netherlands by Renewi's subsidiary, Coolrec. It is made in two sizes from High Impact PolyStyrene Plastic ("HIPS"). HIPS is neutral in colour and easy to paint or glue, making it a perfect sustainable material for 3d scale model printing.

The filament has been optimised for 3d printing to a high standard, eliminating shrinkage and warping during the printing process. Once the print is finished, it can easily be removed by a natural acid. Even the delivery of the filament is sustainable, as it comes in recyclable cardboard, leaving no waste behind.

Refil and Coolrec are working on further developments for the filament market, including black filament. This product will be made using recycled plastic from old televisions and is expected to be available early next year.

Arjen Wittekoek, Director of Coolrec said:

"This collaboration is a good example of two companies at the forefront of plastic recycling working together in their own field of expertise. Discarded appliances are made from and still contain many valuable materials. Using innovative techniques, we are able to recover the plastics and reuse it in the manufacturing of new products, such as 3d filament. Developing HIPS and the collaboration with Refil is another way to protect the world against pollution, preserve finite resources and enable our partners to achieve their sustainability targets. We are therefore very proud to be involved in this circular collaboration."

Casper van der Meer, CEO of Refil said:

"Whereas Coolrec is all about the recycling of electrical and electronic equipment, Refil transforms the acquired plastics into 3d printing filament and makes it available around the world. Making recycled filament may seem easy, but getting a steady supply chain and maintaining a high quality over different batches is a real challenge. This is why it took us three years of development to be able to guarantee the quality. Together with Coolrec we're delighted that we've managed to realise this."

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About Renewi

Renewi, created in 2017 by the merger of Shanks Group plc and Van Gansewinkel Groep B.V., is a leading waste-to-product business ideally positioned to be part of the solution to some of the main environmental problems facing society today: reducing waste, avoiding pollution, and preventing the unnecessary use of finite natural resources.

Renewi is listed on the London Stock Exchange. With over 8,000 employees in Europe and North America, we have deep expertise and an extensive breadth of waste management products and services.

For us, waste is a state of mind, an opportunity. When we take away someone's waste, we then give it new life. We transform a wide range of used materials into useful products and raw materials for our customers, like recycled paper, metal, plastic and glass, woodchips, compost, energy, fuel, and other products.

In the process we protect the world from contamination, preserve finite natural resources, and enable customers to meet their sustainability goals. With our deep international expertise we also provide our customers with an extensive product range, combined with excellent local service and attention.

Above all, our team is committed and passionate about our mission: waste no more. Renewi operates across five divisions:

- Netherlands Commercial – Collecting, sorting, treating and recycling commercial and household waste in the Netherlands
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- Hazardous Waste – Treating soil, water and packed chemical waste at our flagship ATM facility and conducting specialist industrial cleaning in the Netherlands
- Monostreams – Managing a range of waste streams which focus on specific end markets such as glass, electronic goods, organics and minerals in Europe
- Municipal – Operating long-term waste management contracts with local authorities in the UK and Canada

For more information, please visit: www.renewiplc.com.

Images are available to download at: www.renewiplc.com/imagelibrary

About Refil

Kickstarting with their ABS which is 100% recycled and made from Audi and Volvo car dashboards made Refil the first company that scaled up the production of recycled filaments. Refil has secured a stable production of high quality recycled filaments that can compete with new (virgin plastics) filaments. [Check out our launch film here](#). Refil 3d printing filament is available around the world via resellers and their own webshop at www.re-filament.com.