11 September 2024

**PURE LOOP at Fakuma**

**ISEC evo also keeps composite materials in the loop**

**With the ISEC evo plastic pelletising system, PURE LOOP offers a high-performance recycling machine for processing a wide range of production waste. In tests with thermoplastic composites and glass fibre waste, PURE LOOP has already been able to confirm the high quality of the recycled pellets for return to injection moulding production several times. The member of the EREMA Group will be on hand at Fakuma to answer any questions on the subject.**

Ansfelden, 11 September 2024 - Thanks to the ISEC evo, production scrap from various plastics, such as polystyrene, polycarbonate, polypropylene and polyamide, can be gently processed into high-quality recycled pellets. "Our integrated shredder extruder combination is the perfect solution for injection moulders who want to return their production waste to the production cycle in high quality. This is a crucial aspect for a sustainable, cost-efficient and resource-saving production," says Manfred Dobersberger, Managing Director of PURE LOOP.

Disposing of scrap parts and sprues from the injection moulding process is associated with work and sometimes high costs. Feeding them back to the production process therefore offers economic benefits for injection moulders. "Our ISEC evo sets new standards in the recycling of injection moulded parts by ensuring a consistently high quality of recycled pellets," explains Dobersberger. In contrast to grinding processes, only minimal changes in the Melt Flow Index (MFI) occur during repelletising and there is no dust, which promotes the formation of soot particles. The regranulate has the same shape and melt performance as virgin material, which makes it easier to feed back into the injection moulding machine.

**High-quality recycled pellets made from 100 % glass fibre**

The system, which is equipped with a melt filter, also copes excellently with challenging materials of different sizes and shapes. The use of high-quality carbide knives, a protected rotor, special treatment of the screw flights and other measures increase the wear resistance of the system. As a result, composite materials or glass fibres can also be optimally processed. "During tests in August at our R&D Center in Ansfelden, the ISEC evo was once again able to prove its high performance," says Dobersberger. During the production of glass fibre-reinforced fabric, scrap is produced from the non-crimp fabric or also residual spools. The 100 percent glass fibres were fed into the recycling process without pre-shredding and compounded with polypropylene or other polymers. "In the tests, the recycled pellets produced showed higher mechanical properties than the virgin material from well-known manufacturers," emphasises Dobersberger.

The PURE LOOP team will be available for discussions at the Fakuma in Friedrichshafen from 15 to 19 October. Dobersberger invites all visitors: "We have a high level of problem-solving expertise and are happy to discuss even the most challenging issues. Please come and talk to us at the Fakuma."

Visit PURE LOOP at Fakuma: **Hall A6, Stand: 6314**

**<<Bild 1>>**

*The integrated shredder extruder combination ISEC evo converts production waste into plastic regranulate that can be fed back into the production cycle.*

**<<Bild 2>>**

*The latest tests with an ISEC evo with 100 percent glass fibres were a complete success! The mechanical properties of the regranulates exceed those of virgin material from well-known manufacturers.*

**<<Bild 3>>**

*“Our ISEC evo is the perfect solution for injection moulders who want to return their production waste to the production cycle in high quality,” emphasises Manfred Dobersberger, Managing Director of PURE LOOP in the run-up to Fakuma.*

**PURE LOOP**PURE LOOP GesmbH, a subsidiary of EREMA Group GmbH, specialises in recycling clean production waste. The headquarters are in Ansfelden near Linz in Austria. The company’s innovative shredder-extruder technology offers maximum flexibility in processing high volume and highly tear-resistant industrial and post-industrial materials into recycled pellets. As a member of the EREMA Group, PURE LOOP has the advantage of the extensive experience, technological expertise and innovative strength of all the companies in the group.

**For further information please contact**

**Julia Krentl**

Corporate Communication

EREMA Group

Unterfeldstraße 3, 4052 Ansfelden, AUSTRIA

Phone: +43 732 3190-6092

Email: public.relations@erema-group.com