

## PRESS ARTICLE

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### **Sidel StarLITE™ HPC: A new base solution to increase the stability of flat PET and rPET containers by up to 25%**



**Sidel is introducing the StarLITE™ HPC base. The new, oval bottle base alternative for flat PET containers helps achieve optimum performance and can also comply with recycled PET (rPET) up to 100%. The new bottle base not only increases container stability by up to 25%, but also optimises bottle weight and energy consumption, reducing production costs and greenhouse gas (GHG) emissions with a quick payback.**

#### **Improved stability by up to 25%**

The new geometry of the completely flat StarLITE HPC base is cleverly structured. Its new anti-rocking design is based on a 360-degree continuous contact surface which improves tilt angle and may be combined with structural ribs and oval push-up. “The doubled sitting surface and the balanced stretching ratios between small and large sides enable better material distribution, while avoiding base sagging,” explains Laurent Naveau, Packaging expert at Sidel. This oval shape achieves an optimum performance level, drastically improving empty or filled container stability by up to 25%. This helps increase production uptime, with better container stability on conveyors in comparison with existing major flat PET container bases, and also improves consumer experience.

#### **A more sustainable and cost-effective flat container**

Applicable for both opaque and transparent PET resins, the StarLITE HPC base offers wide containers opportunities and is perfectly compliant with rPET up to 100%. The smart, asymmetric, structured base design improves material distribution, prevents unexpected base roll-out and contributes to lightweighting opportunities, i.e., a 0.5 g PET reduction for a 500 mL

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container base. The enhanced base cooling engineering for mould and tooling design improves base cooling during blow moulding and may prevent post-mould base cooling according to bottle shape, format and weight.

Thanks to its design, the StarLITE HPC base is easy to blow and reduces blow moulding pressure by up to 10%, i.e., a 3 bar decrease for a 420 mL container. It also makes it possible to push the process speed limit even further and to increase production output up to 15% higher than the market average. For instance, a flat container produced at 1,600 bottles per hour per mould (b/h/m) with a standard market base can be blown up to 1,800 b/h/m with the StarLITE HPC base, with possibilities to reach up to 2,000 b/h/m according to bottle shape. With the investment in a new set of moulds equipped with the StarLITE HPC base, very fast payback in less than one year can be achieved, while drastically reducing GHG emissions.

This StarLITE HPC is compatible with all generations of [Sidel blow moulding machines](#): SBO EvoBLOW, SBO Universal, SBO Series2 and SBO Series1.

More information about [StarLITE HPC](#).



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Sidel is a leading provider of equipment and services solutions for packaging beverage, food, home and personal care products in PET, can, glass and other materials.

With over 40,000 machines installed in more than 190 countries, we have nearly 170 years of proven experience, with a strong focus on the factory of tomorrow with advanced systems, line engineering and innovation. Our 5,500+ employees worldwide are passionate about providing solutions that fulfil customer needs and boost the **performance** of their lines, products and businesses.

Delivering this level of performance requires that we stay flexible. We continuously ensure we **understand** our customers' changing challenges and commit to meeting their unique performance and sustainability goals. We do this through dialogue and by understanding the needs of their markets, production and value chains. In turn, we apply our solid technical knowledge and smart data analytics to ensure lifetime productivity reaches its full potential.

We call it **Performance through Understanding**.

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