

SIPA WINS WEIGHT RACE BY A NECK

Latest lightweighting developments at SIPA not only help converters cut down on consumption of PET, they also enable them to conform with upcoming European laws for single-use plastics (SUPs) covering tethered caps.

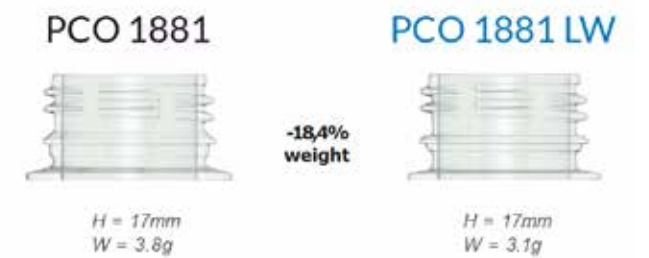
Lightweighting makes production of bottles greener – and more profitable.

SIPA has dedicated itself to bottle lightweighting for a long time, but its most recent efforts have concentrated on taking material out of the preform neck without negatively affecting container and closure performance in production and use.

In fact, the new designs take the same closures as before, and converters don't need to make any changes to handling systems. Finished bottles have excellent mechanicals, and they look great.

Here's an example of annual savings possible using the lightweight version of the

PCO 1881 neck finish for a carbonated soft drink bottle.



Assuming a price of PET of €1250/tonne, an annual production of preforms of 200 million units, with necks weighing 0.7g less than regular PCO 1881 necks, the preform producer can save €175,000/year.

Crucially, the new neck accepts tethered caps in line with the new SUP Directive.

So SIPA's innovative bottle designs not only prioritize sustainability but also adhere to evolving standards and laws, exemplifying the company's commitment to responsible packaging.

The SUP Directive 2019/904 comes into force in July.

SIPA's design team has demonstrated its dedication to eco-conscious packaging time and time again by creating a range of functional, and environmentally friendly bottles that also look good. Some of these

bottles need no labels, making them easier than ever to recycle. This innovative approach not only minimizes waste but also bestows a clean, sleek appearance, elevating the bottle's aesthetic appeal. Plus, they weigh less than "regular" bottles.

Preforms weight [g]	20.5	19.8
Saving per preform [g]		0.7
Preforms year	200,000,000	200,000,000
Resin cost [€/ton]	1,250	1,250
Resin /year [t]	4,100	3,960
Total Cost /year [€]	5,125,000	4,950,000
Saving per year [€]		175,000

SAVING
€=175.000 /year
ROI in less than
4 months

