



Packaging for your life.



**TOP TUBE
LESS IS MORE**

DESCRIPTION

With our TopTube material reduction is key. Unlike previous tubes, the shoulder of the TopTube takes up the function of the cap's head plate. Thanks to the shoulder's specifically adapted shape, an additional material reduction in the shoulder could be realized. As a result, the weight of a 200 ml TopTube with reduced wall thickness is cut by almost half compared to a standard tube*.

*Ø 50 x 160 mm: TopTube (300 µm wall thickness): ~ 12.0 g vs. standard flip-top tube (500 µm): ~ 22.8 g

TECHNICAL FEATURES

- **Material reduced flip-top cap** with ring-shaped mounting to the shoulder: Head plate no longer necessary
- Combination of reduced tube wall thickness and high PCR content
- Diameters 30, 35, 40 and 50 mm
- Orifice diameter: 1.5 mm, 3 mm and 5 mm
- HDPE cap for **higher recyclability**
- PCR cap material in examination
- Tube printing in HD and offset printing
- Shoulder printing, alignment of closure to the artwork possible
- Mat or glossy cap

YOUR ADVANTAGES

- Carbon footprint of 6.4 g CO₂e per cap
(vs. 24.5 g CO₂e for standard flip-top cap Ø 50 mm; incl. HDPE, injection moulding and material transport)
→ **more than 70% reduced carbon footprint of closure**
- **Significantly reduced weight:**
→ > 70% lighter cap**
→ ~15-20% material reduction in the tube shoulder
→ Possible with 350 µm wall thickness
- High recyclability thanks to **mono material approach**: PE in tube and cap
- Significantly lower CO₂ compensation costs compared to the current market standard
- TopTube cap suitable for multiple tube diameters (30, 35, 40 & 50 mm)
→ Ideal for product lines with different tube sizes
- LINHARDT-exclusive patented solution

**2.25 g TopTube cap vs. 8.6 g standard flip-top cap Ø 50