



Product:

N-Pod Commercially compostable capsule: injection moulded industrial compostable biopolymer capsule with high oxygen barrier and cellulose ring

Capsule Material

- The material of our commercially compostable capsule is a biopolymer in the sense of the regulation EU 10/2021
- The basic material used is based on renewable raw materials (>96%)
- All monomers contained in our biopolymer have already been approved by the EFSA (European Food Safety) and are known.
- The material as well as the capsules made from it are free from aluminium
- All materials used are GMO and Pesticide-free
- California Prop 65 compliant

Production

- Country: Germany
- According to quality standard ISO 9001 (2015) and the hygiene regulation DIN EN15593/2008
- From renewable energies

Capsule

OTR	0.0008 cm³ / capsule / day (0.21bar - @23°C, 50% RH)
WVTR	0.0031 g / capsule / day (@23°C, 85 %RH)
Height	
- Natural	28.2 ± 0.2 mm
- Colored	28.2 ± 0.3 mm
Outer Diameter	
- Natural	37.0 ± 0.2 mm
- Colored	37.0 ± 0.3 mm
Weight	2 ± 0.2 g
Wall thickness	0.5 ± 0.1 mm
Volume	approx. 13.4 cm³
Inner surface of the capsule body	approx. 22.2cm ²

Capsule & Ring Colors

Capsule Colors (ring white)

- bone/natural
- dark green
- light green
- bio green
- brown

Ring Colors (capsule white)

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- black light blue
- white

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- grey slate
- brown
- dark blue orange
- yellow
- purple

dark green

• light green

red

- dark red cherry
- purple raspberry

Storage

- Unfilled: storable for up to 36 months
 - Relative humidity of up to 60%
 - Temperature range: +5 °C to +35° C
- Filled: shelf life of 24 months if using the recommended sealing paper and ensuring a hermetic sealing

Logistics

- Packaging unit: 40,000 pieces as bulk goods in cardboard box with a protective PE bag
- Pallet: Euro pallet: 120x80cm 1 parking space corresponds to 2 cardboard boxes with 2 pallets on top of each other
- Total weight per storage space approx. 210 kg
- During transportation Max. allowable temperature peek -10°C to 65°C

Food Contact

• Global and Specific Migration Analysis made in accordance with EU 10/2011

Carbon neutral

imatePartner.com/14442-2003-1001

- THF Tetrahydrofuran CAS 109-99-9 Free
- 1,4-Butandiol CAS 110-63-4 Free
- Vinylacetat Free
- PFAS und PFOA Free
- FDA for US approved

Environmental Certifications



100%

biobased

COMMERCIALLY COMPOSTABLE ONLY. FACILITIES MAY NOT

EXIST IN YOUR AREA



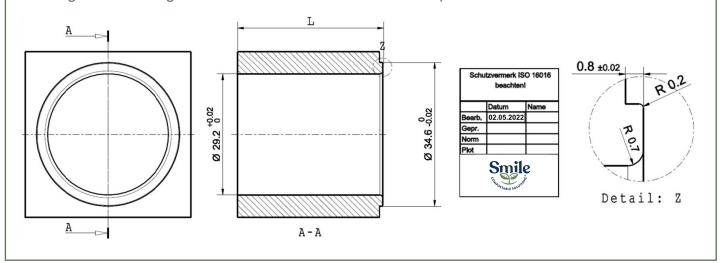
- Bisphenol A Free
- Heavy meatal Free

FORMAT PLATES AND SEALING HEAD



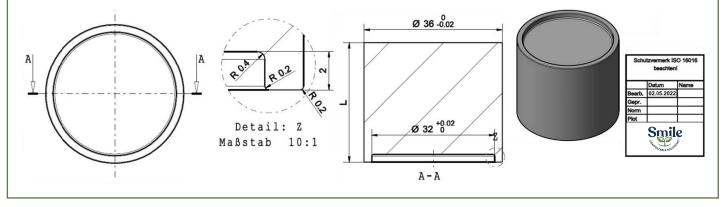
Design of the capsule holder in the format plate

For inclusion of our capsules in the format plates we recommend the geometry according to following drawing. Dimensions given with the value "L" are determined by the machine manufacturer.



Design of the sealing head

To seal the lid on our capsules we recommend the geometry according to the following drawing. Dimensions given with the value "L" are determined by the machine manufacturer.

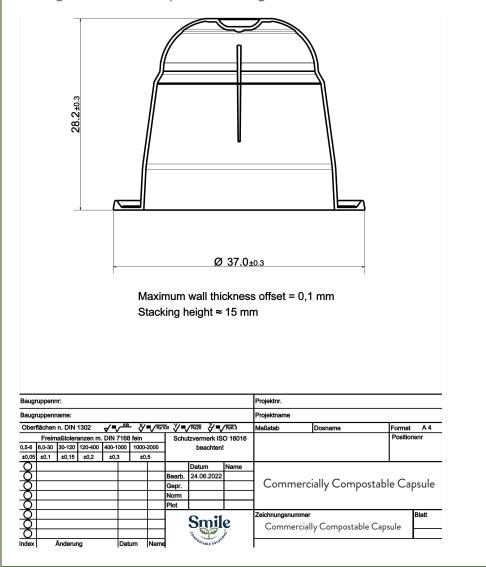


Parameters for the lid sealing (lid paper: Jura-tech A+)

Attention, displayed values are laboratory values and must be adapted according to the respective filling machine.

Description	Value	Unit
Temperature (measured directly on the sealing surface)	220-240	[°C]
Force of the pneumatic cylinder	1250	[N]
Sealing duration	400-500	[ms]
Burst pressure	0.6	[bar]

After sealing, care must be taken that the internal pressure in the capsule created by the escaping gases from the coffee does not exceed 0.4 bar relative to the ambient pressure. The coffee has to be degassed sufficiently before filling.



Capsule Colors (ring white)





Bone/Natural Art. -Nr. 10210

Brown Art. -Nr. 10220



Dark Green Art. -Nr. 10260



Light Green Art. -Nr. 10270



Bio Green Art. -Nr. 10275

Ring Colors (capsule white)



Red Art. -Nr. 10030



Dark Blue Art. -Nr. 10080



White Art. -Nr. 10000



Yellow Art. -Nr. 10050



Light Blue Art. -Nr. 10090



Black Art. -Nr. 10010



Orange Art. -Nr. 10040



Purple Art. -Nr. 10030



Dark Red Cherry Art. -Nr. 10100



Dark Green Art. -Nr. 10060



Brown Art. -Nr. 10020



Purple Raspberry Art. -Nr. 10101



Light Green Art. -Nr. 10070



Grey Slate Art. -Nr. 10102