

# Technical data

VNM-49490 R07



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	Value
Type of cap	Necked-in caps
Fitting to	Tinplate cans
Diameter [mm]	46,90
top, outside	49,10
bottom, outside	47,80 +/- 0,2
bottom, inside	46,60 +/- 0,2
cam-lock, inside	
Height [mm]	49,0 +/- 0,3
Junction radius [mm]	7,0
(top to wall)	
Surface	mat
Raw material	PP
Quantity per cardboard box	800
(outer box dimensions 770 x 380 x 383 mm)	
Quantity per pallet	12.000
(pallet dimensions 1200 x 800 x 2150 mm)	

# Technical conditions

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The correct use of our products is subject to technical conditions. Damage to our products, filling material, filling machines or in logistics can be prevented only if these conditions are complied with. In the event of non-compliance with the technical conditions, we cannot guarantee any technical characteristics of our products, we do not give any warranty and exclude liability towards buyers or users for any damages. This disclaimer includes all damage both to our products and to the filling material as well as consequential damage to other property which can be caused by improper handling of our products. Unless otherwise agreed, our technical data and conditions are an implicit part of delivery contracts. Only the current online version of the technical data and conditions on our homepage is valid. We reserve the right to technical modifications. This data sheet is our property and may not be copied or made accessible to third parties without our consent.

## **Influence of chemicals**

Even though raw materials used by us have an excellent chemical compatibility, various chemicals can exert influence on the materials used and thus impair, for example the mechanical stability or the stress crack resistance of our products. The resistance lists on our homepage can assist in determining the compatibility of possible chemicals with our products, however, it is always the sole responsibility of the filler to verify that our products are suitable for special applications. We cannot give any warranty therefore.

## **Load securing**

Our products are suitable for transport in vertical position and may require sufficient load securing as part of a container. The load securing relates to the complete loading, but in particular to individual load units (e.g. loaded single pallets) on the load floor of the transport vehicle (lorry, railway wagon etc.). Securing of the load units includes securing of the containers on the load carrier (e.g. euro pallet) against shifting, falling over, climbing and protection against humidity, dirt, direct solar radiation, mechanical damage etc. (e.g. by means of a hole-free and crease-free PE shrink film of appropriate thickness and with sufficient undershrinking). Suitable security procedures for load units are described in the VDI guideline 3968. The VDI guidelines 2700 and 2702 contain specifications about stresses during transport.

## **Storage and further processing conditions**

The plastics used by us become brittle due to exposure to UV radiation and/or at low temperatures and soften at high temperatures. Exposure of coloured articles to UV radiation can cause fading of the colour or complete loss of the colour. Therefore, under the influence of UV radiation we cannot guarantee any product characteristics, and a possible suitability for dangerous goods may also be lost. Thus, always avoid direct influence of UV radiation and process our products in a temperature range between 10°C and 30°C. Particularly for as long as our products have low temperatures, rough handling (pushing, hitting, throwing of the packaging units, etc.) should be avoided. Tests with shrink-wrapped pallets have shown that temperature increases within a closed film under normal room conditions by approx. 2.5°C / hour. If our packaging components are stored, for example at -10°C, it is recommended to store them before filling at least 8 hours in a room with normal temperature to reach a packaging component temperature of +10°C. In addition, our products must be stored in a clean, dry place, outdoors storage is not beneficial for our packaging components. If storage is possible only outdoors, special (UV) safety precautions with regard to the transport packaging and/or the products (e.g. UV stabilizers) must be taken. Please ask us separately for further information. During unpacking, our products must not receive cuts or notches (not only on the surface). Polyolefins tend to break at such locations when load is applied at a later point of time. Therefore, to open transport packagings (stretch films or shrink films, cardboard packaging), use foil cutters or cutting devices which pose no risk of damage to our products and do not use knives with an open blade.

## **Suitability for foodstuff**

Comprehensive statements about the suitability for foodstuff of our products can be found in our declaration of conformity, which you will receive on request.

## **Tolerances**

According to technical drawing or for dimensions without tolerance specification according to DIN 16742.

## **Use and application**

Our products are developed and manufactured as one-way packagings. Therefore, special product characteristics are achieved only during first filling. In case of refilling, we exclude any warranty and claims for damages.

Containers made from external reclaims (recycled material) may have limited technical properties compared to virgin products. Their suitability for specific applications must be tested and verified by regular own tests. No warranty is given for containers made from external reclaims (recycled material).

**Storage life**

Unless otherwise specified, our products must be processed within 12 months after they have been manufactured. Irrespective of this, a product showing any signs of damage or reduced strength must not be used.