

Report Details

Company	TCM Automotive GmbH
Report ID	10020076-4-2
Report	Plastic Tank PP
Creator	Daniel Weber
Contact	daniel.weber@tcm.de
Created on	24.09.2026
Created by	Daniel Weber

Simulation Results

Packing method	Rigid Layers Smart Select
Part Weight	0,350 kg
Part Volume	384,528 cm³

Key Metrics

Total Volume	24,62 m³
Total Weight	5.357,25 kg
Quantity	2.500
Inside (LxWxH)	12032 × 2352 × 2395 mm
Outside (LxWxH)	12192 × 2438 × 2591 mm
Highest Packaging Level	40-Foot Container
Required quantity	1



Pakera Score®

90,0 /100

★ Excellent

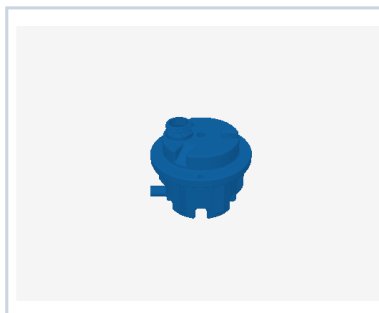
Logistics efficiency **45,0/50**

Safety & compliance **30,0/30**

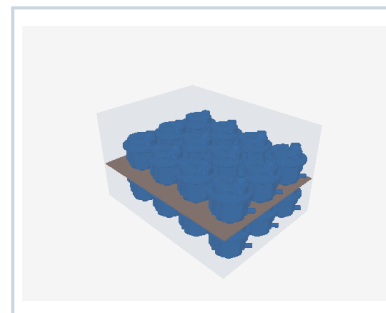
Sustainability **15,0/20**

Packing Visualization

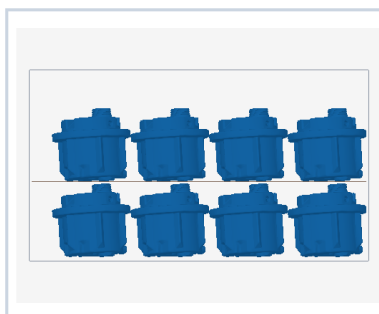
Single View



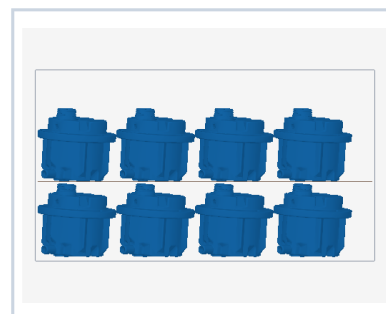
View



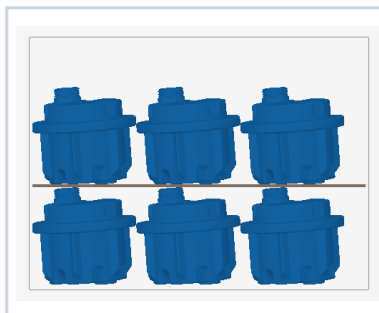
Front



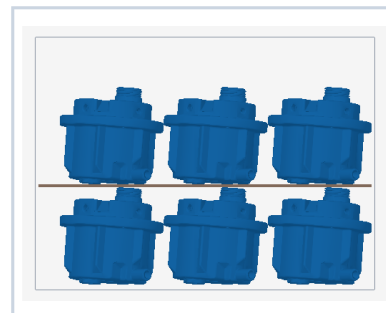
Back



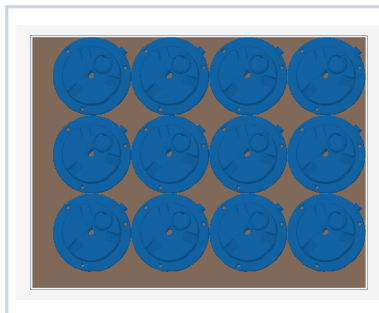
Left



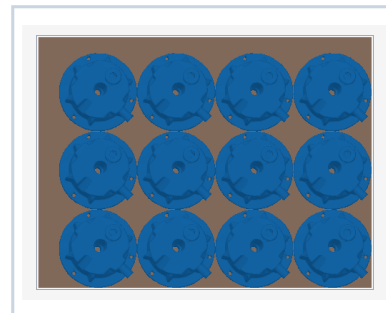
Right



Top



Bottom



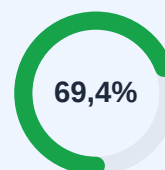
Packaging Configuration

	Folding box · Primary	Euro pallet EUR1 / EPAL1, wood · Pallet	40-Foot Container · Container
Content	24 Part Total parts: 24	6 Folding box Total parts: 144	25 Pallet Total parts: 3.600
Type	Folding box	Euro pallet EUR1 / EPAL1, wood	40-Foot Container
Internal	766 × 576 × 418 mm	1200 × 800 × 1305 mm	12032 × 2352 × 2395 mm
External	775 × 585 × 435 mm	1200 × 800 × 1449 mm	12192 × 2438 × 2591 mm
Net	8,40 kg	59,10 kg	2.102,50 kg
Container	1,45 kg	25,00 kg	3.880,00 kg
Gross	9,85 kg	84,10 kg	5.982,50 kg
Volume weight	39,44 kg	278,21 kg	15.403,03 kg
Chargeable	39,44 kg	278,21 kg	15.403,03 kg
Volume utilization	 70,0%	 77,0%	 61,1%
Weight utilization	 31,1%	 5,9%	 6,5%
Empty Volume	30,0%	23,0%	38,9%
Compliance status			
Chargeable weight determined			
Container load limits respected	(8,40 kg / 27,00 kg)	(59,10 kg / 1.000,00 kg)	(2.102,50 kg / 32.500,00 kg)
Handling limits respected	(9,85 kg / 30,00 kg)	(84,10 kg / 2.500,00 kg)	(5.982,50 kg / 30.480,00 kg)
Transport limits respected	(9,85 kg / 2.500,00 kg)	(84,10 kg / 2.500,00 kg)	(5.982,50 kg / 30.480,00 kg)
Warehouse limits respected	(9,85 kg / 1.200,00 kg)	(84,10 kg / 1.200,00 kg)	Not applicable
PPWR-compliant void space			

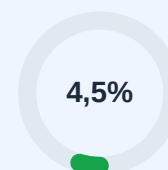
Total result

Packed parts	2.500	Folding box · Primary	105
Euro pallet EUR1 / EPAL1, wood · Pallet	18	40-Foot Container · Container	1
Method	Rigid Layers	Total Gross	5.357,25 kg
Volume Weight	15.403,03 kg	Chargeable	15.403,03 kg

Volume



Weight



Packaging Overview

Packing Method: Rigid Layers			
			
Part	Folding box · Primary	Euro pallet EUR1 / EPAL1, wood · Pallet	40-Foot Container · Container
Total parts 2.500	Part per package 24	Folding box per package 6	Pallet per package 25
Dimensions 180 × 180 × 168 mm	Number of layers 2	Number of layers 3	Number of layers 1
Part weight 0,350 kg	Net Weight / Max. Load 8,40 kg / 27,00 kg	Net Weight / Max. Load 59,10 kg / 1.000,00 kg	Net Weight / Max. Load 2.102,50 kg / 32.500,00 kg
	Number of packages 105	Number of packages 18	Number of packages 1
	Transport dimensions 775 × 585 × 435 mm	Transport dimensions 1200 × 800 × 1449 mm	Transport dimensions 12192 × 2438 × 2591 mm

Bill of Materials

No.	Packing Configuration	Packaging Type	Packaging Name	Part No.	Supplier No.	Dimensions (LxWxH) (mm)	Est. Weight (kg)	Material	Reuse	Recycle	Est. Quantity (pc)	Price (€)	Total (€)
1	Folding box	TP	Folding box	553111-1	45345 Best Packing Ltd.	O: 775 × 585 × 435 I: 766 × 576 × 418	1,45	Cardboard		✓	105	2,8400	298,20
1.1	Intermediate Layer	TP	Cardboard Sheet	PKG-1831-IL	23445 Best Packing Ltd.	O: 766 × 576 × 5	-	Cardboard		✓	105	0,3600	37,80
1.2	Delivery slip pocket	TP	Delivery slip pocket	32344-2	32323B Best Packing Ltd.	-	0,02	PP		✓	105	0,2600	27,30
2	Pallet	TP	Euro pallet EUR1 / EPAL1, wood	43233	PL-12080 Holzhandel Wern- er KG	O: 1200 × 800 × 144	25,00	Wood	✓	✓	18	22.0000	396,00
3	Container	TP	40-Foot Con- tainer	-	-	O: 12192 × 2438 × 2591 I: 12032 × 2352 × 2395	3.880,00	Steel	✓		1	-	-
Total Parts Shipped: 2.500 pc				Packaging Cost per Part: 0,30 €				Total Packaging Cost: 759,30 €					

Packaging type codes: TP – Transport Packaging (TP)

Packaging Compliance

 REACH compliance confirmed Registration, Evaluation, Authorization of Chemicals	 PFAS-free status confirmed Per- and Polyfluoroalkyl Substances	 ISPM 15 compliance confirmed Wood Packaging Material Standard	 Heavy metals limit confirmed PPWR Article 5(4)
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**Substances of
Concern minimiza-
tion (SoC)**
confirmed

PPWR Article 5(1)

Packaging Instructions

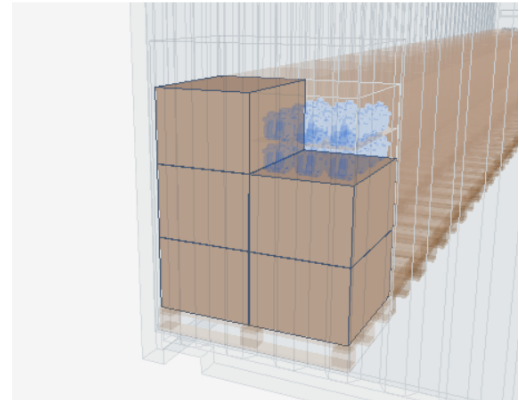
1 Pack the tanks

Place 24 plastic tanks into each carton in two layers. Separate both layers with a stable cardboard divider to prevent direct contact and movement during transport.



2 Palletize the cartons

Place 6 closed cartons evenly on one EUR1 pallet. Align the cartons with the pallet edges and ensure a stable and balanced load.



3 Secure the pallet

Wrap the complete pallet load with stretch film from the pallet base to the top. Apply sufficient tension and overlapping layers to secure the cartons for handling, storage and transport.

Quick Notes

 Handling and Transport	 Storage Conditions
Operational handling requirements for loading, transport, and unloading.  Do not stack The package must not be stacked during storage or transport.  Keep upright Package must remain upright during storage and transport.  Mixed loading prohibited Shipment should not be loaded together with other goods.	Storage restrictions and environmental requirements.  Indoor storage only Outdoor storage should be avoided.

Transport

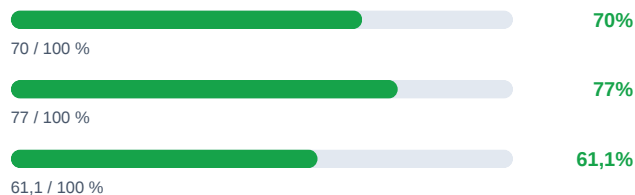
Package Overview

Package type	Est. package numbers	Dimensions (mm)	Est. Volume	Est. volume weight	Est. gross weight	Est. chargeable weight
40-Foot Container	1	12.192×2.438×2.591	77,02 m³	15.403,03 kg	5.359,35 kg	-
Shipment total	1	-	77,02 m³	15.403,03 kg	5.359,35 kg	-

Weight utilization



Volume utilization



Transport Cost Breakdown

1	Road
Nürnberg → Bern	
Origin Nürnberg DE	Destination Bern CH
Distance	490,32 km
Billing Basis	Fixed Rate
Rate	920 €
Calculated Segment Cost	920,00 €

Transport Summary

Total Distance
490,32 km

Total est. Shipping cost
920,00 €

Est. Shipping Cost per part
0,37 €
(Total parts shipped: 2.500)

Route: [DE] Nürnberg ' [CH] Bern
[Open route stops in Google Maps](#) —

Sustainability

Intensity
41,25 g CO₂e/kg

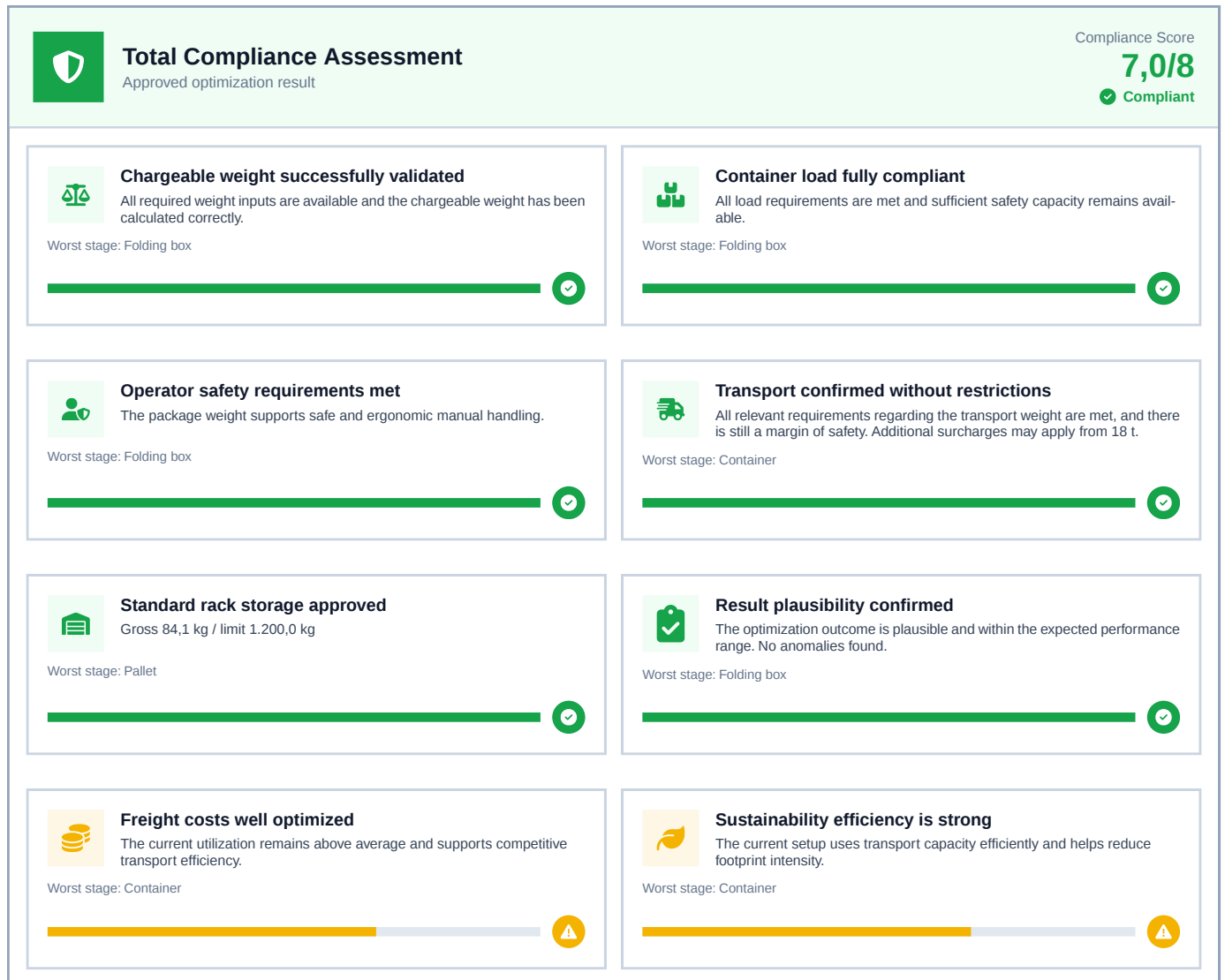
Emissions
197,090 kg CO₂e

Transport Activity
2.627,80 tkm

Well-to-Wheel · Calculated in accordance with ISO 14083 powered by



Compliance



Disclaimer

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PPWR Declaration of Conformity

Regulation (EU) 2025/40 — Packaging & Packaging Waste

PAKERA DOCUMENT

10020076-4-2

PACKAGING INFORMATION

Declaration ID:	10020076-4-2
Report Name:	Plastic Tank PP
First Placement:	23.09.2026
Description:	The plastic tanks are shipped to our assembly partner in Switzerland. The same packaging is used to return the goods to us.

1. GENERAL INFORMATION

Company:	TCM Automotive GmbH	Contact:	Daniel Weber
Street:	Sandstraße 27	Job Title:	Strategic Procurement
City:	Hamburg 22175	Email:	daniel.weber@tcm.de
Country:	Germany	Phone:	01679368972

2. OBJECTS OF DECLARATION

The object of the declaration is in conformity with the relevant Union harmonization legislation: Regulation (EU) 2025/40 of the European Parliament and of the Council of 19 December 2024 on packaging and packaging waste. References to the relevant harmonized standards or common specifications used in relation to which conformity is declared:

Standard	Description
EN 13427:2004	Requirements for the use of European Standards in the field of packaging and packaging waste
EN 13428:2004	Requirements specific to manufacturing and composition — Prevention by source reduction
EN 13430:2004	Requirements for packaging recoverable by material recycling

3. ISSUANCE & SIGN OFF

This declaration of conformity is issued under the sole responsibility of the manufacturer.



Created by **Daniel Weber**, on 24.9.2026 at 11:09.

This document shall be retained for a minimum period of 5 years for single-use packaging and 10 years for reusable packaging, calculated from the date on which the packaging is placed on the market. It shall be made available to the competent authorities upon request at any time.