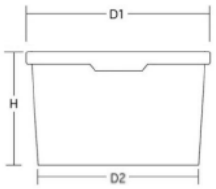


# Bucket technical specification

## Round bucket 5-1 L PCR

Plastic bucket with lid and handle




### Dimensions

D1: ø 226.0 mm
D2: ø 193.07 mm
H: 188.20 mm (187.40 mm bez poklopca)

### 1. General information & PPWR:

| | |
|---|---|
| **Product name:** | Round bucket 5-1 L PCR |
| **Product code:** | 018621 |
| **Manufacturer:** | PREPLAM d.o.o., Jakovlje, Hrvatska |
| **PPWR classification:** | Rigid primary industrial packaging (B2B) |
| **Food contact:** | No (general industrial packaging) |
| **Intended use (Application):** | Chemical industry, dispersions, paints, varnishes |

### 2. Dimensions & geometry:

- Nominal volume: 5.0 L (Brimful volume: 5.65 L)
- Total assembly mass: 185.7 g (optimized in accordance with Article 21 on mass minimization)

(Bucket body: 136.5 g | Lid: 40.2 g | Plastic handle: 9.0 g)

- Bucket height (H): 188.20 mm (187.40 mm bez poklopca)
- Upper outer diameter: ø 226.0 mm
- Lower outer diameter (D2): ø 193.07 mm
- Average wall thickness: 1.20 mm (minimum functional thickness)

### 3. Composition & PCR recyclate:

TOTAL ASSEMBLY COMPOSITION (100% PP - Mono-material):

├── Bucket body (PP-C): 90% Virgin PP + 10% PCR rPP (136.5 g)

├── Lid (PP-C): 90% Virgin PP + 10% PCR rPP (40.2 g)

└── Plastic handle (PP): 90% Virgin PP + 10% PCR rPP (9.0 g) (for high tensile strength)

└── IML Label (PP): 100% Virgin PP coextruded film (homogeneous PP assembly)

- Recycled content share: The total weighted share of PCR recyclate in the entire assembly is 10.0%.

For further information visit www.preplam.hr or contact us at preplam@preplam.hr.

Date: 23.10.2026. rev. 01 (PPWR)

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• Traceability certificate: Traceability of the recycled material is ensured through RecyClass / EuCertPlast certifikat (klasa usklađenosti / certifikat br: EU-PCR-2026-004).

**4. Mechanical performance:**

• Melt viscosity: MFI (MFR): 18 g/10min (according to ISO 1133 at 230°C / 2.16 kg). Increased injection moulding flowability due to PCR content.

• Static pressure: Breaking force (Top Load): 196 N (corresponds to a load of 20.0 kg at 23°C according to ISO 8113).

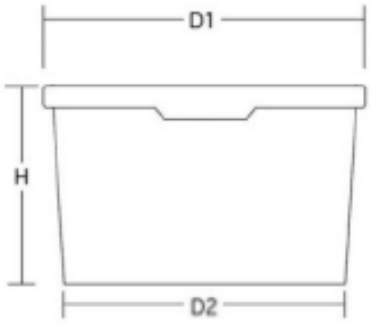
• Thermal load: Hot filling: up to 90°C (stacking only after complete cooling).

• Freezing conditions: Cold resistance: down to -15°C (PP copolymer retains impact resistance).

• Drop resistance (Drop Test): Drop from a height of 1.0 m at 18°C and 0.5 m at -10°C (filled with water/glycol) - without breakage.

**CAD drawings and visuals:**

**Bucket drawing / dimensions:**




**3D view of the finished assembly:**



**Lid drawing / dimensions:**



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## 5. Design for recycling:

| RECYCLASS EVALUATION RESULT | |
|---|---|
| Total product mass: | **185.7 g** |
| Polypropylene (PP) mass: | **185.7 g (100%)** |
| Mass of contaminants (adhesives, paper): | **0 g** |
| **RESULT: CLASS A — Excellent recyclability** | |

• D4R Classification: Class A (Maximum recyclability). Since the bucket, lid, handle and label are made exclusively of polypropylene (mono-material), the assembly is processed into high-purity secondary rPP without the need for separation.

• Decoration technology: In-Mold Labeling (IML) without adhesives and chemical solvents.

• Heavy metals (Article 5 PPWR): Total presence of lead, cadmium, mercury and chromium is below 100 ppm (< 100 mg/kg).

• Free from PFAS and SVHC substances: The product does not contain per- and polyfluoroalkyl substances (PFAS) or substances on the REACH SVHC list in a concentration exceeding 0.1% by mass.

## 6. Logistics & storage:

• Storage: Store in a clean, dry and covered area. Avoid prolonged exposure to direct UV radiation and heat sources to prevent degradation of the polymer matrix. The recommended storage temperature is 5°C do 35°C.

• Shelf life (Shelf Life): 12 months from the date of delivery subject to compliance with proper storage conditions.

• Standard packaging of buckets: 600 pcs (min 40 pcs) / Euro pallet (1200 x 800 mm)

• Standard packaging of lids: 2400 pcs / Euro pallet (1200 x 800 mm)

## 7. EU Declaration (DoC):

Tvrtka PREPLAM d.o.o. declares under its sole responsibility that the product 'Round bucket 5-1 L PCR', šifra '018621' meets all applicable requirements of the Regulation (EU) on packaging and packaging waste (PPWR) and is in compliance with:

- Article 5 (Prohibition and restrictions of hazardous substances)

- Article 6 (Design for recycling - Class A)

- Article 7 (Share of PCR recyclate in industrial packaging: currently 10%)

- Article 21 (Minimization of packaging mass to 185.7 g).

The technical file supporting this declaration, including reports on recyclate content, migration tests (where applicable) and physical testing, is stored under document number TD-018621-2026-v01 and is kept in the quality control archive for at least 5 years.



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**Specification approval:**

| PREPARED BY: | APPROVED BY: |
| --- | --- |
| Damir Majerić Production Planner<br><br>Signature: _____ | Duje Klepo Production Manager<br><br>Signature: _____ |



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