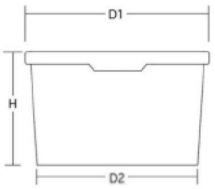


Bucket technical specification

Round bucket 20 L PCR

Plastic bucket with lid and handle



Dimensions

D1: ø 352.20 mm
D2: ø 285.00 mm (ø 285.00 mm)
H: 326.02 mm (325.00 mm bez poklopca)

1. General information & PPWR:

Product name:	Round bucket 20 L PCR
Product code:	018860
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: 20.0 L (brimful volume: 21.3 L)
- Total assembly mass: 717.2 g (optimised in accordance with Article 21 on mass minimisation)

(Bucket body: 530.0 g | Lid: 128.8 g | Metal handle: 58.4 g)

- Bucket height (H): 326.02 mm (325.00 mm bez poklopca)
- Upper outer diameter: ø 352.20 mm
- Lower outer diameter (D2): ø 285.00 mm (ø 285.00 mm)
- Average wall thickness: 1.20 mm (minimum functional thickness)

3. Composition & PCR recyclate:

TOTAL ASSEMBLY COMPOSITION (PP + Metal handle):

├── Bucket body (PP-C): 90% Virgin PP + 10% PCR rPP (530.0 g)

├── Lid (PP-C): 90% Virgin PP + 10% PCR rPP (128.8 g)

└── Metal handle: Galvanised steel (galvanised steel wire) - 58.4 g

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

- Recycled content share: The total weighted share of PCR recyclate in the complete assembly is 9.2%.

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• Traceability certificate: Traceability of 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): 736 N (corresponds to a load of 75.0 kg at 23°C according to ISO 8113).

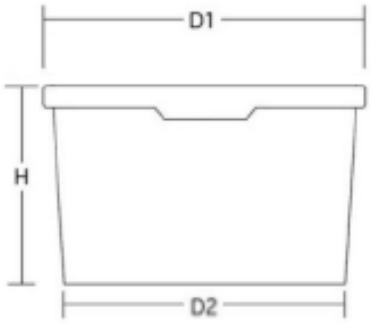
• Thermal load: Hot filling: up to 90°C (stacking only after complete cooling).

• 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) - no breakage.

CAD drawings and visuals:

Bucket drawing / dimensions:



3D view of finished assembly:



Lid drawing / dimensions:

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5. Design for recycling:

RECYCLASS EVALUATION RESULT	
Total product mass:	**717.2 g**
Polypropylene (PP) mass:	**658.8 g (91.9%)**
Mass of detachable metal components:	**58.4 g**
Mass of contaminants (adhesives, paper):	**0 g**
RESULT: CLASS B — Good recyclability (detachable metal handle)	

• D4R Classification: Class B (Good recyclability). The assembly contains a metal handle. Mechanical and magnetic separation of the metal component from the polypropylene stream is required during recycling.

• 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 delivery date subject to compliance with proper storage conditions.

• Standard packaging of buckets: 420 pcs (min 35 pcs) / pallet (110 x 130 mm)

• Standard packaging of lids: 840 kom / euro paleta (1200 x 800 mm)

7. EU Declaration (DoC):

Tvrtka PREPLAM d.o.o. declares under sole responsibility that the product 'Round bucket 20 L PCR', šifra '018860' meets all applicable requirements of the Regulation (EU) on packaging and packaging waste (PPWR) and is in compliance with:

- Article 5 (Prohibition and restrictions on hazardous substances)

- Article 6 (Design for recycling - Class B)

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

- Article 21 (Minimisation of packaging mass to 717.2 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-018860-2026-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 Planning Manager Signature: _____	Duje Klepo Production Manager Signature: _____

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