



TECHNICAL DATA SHEET
AND
DECLARATION OF COMPLIANCE

Polyethylene (PE) Bags for Food Contact

Manufacturer:

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1. PRODUCT DESCRIPTION

Kompak In polyethylene (PE) bags are intended for direct contact with food and for other sensitive applications in the pharmaceutical and chemical industries.

They are manufactured exclusively from 100% virgin polyethylene raw materials, without the addition of recycled materials, fillers, or contaminants, ensuring consistent quality, safety, and regulatory compliance.

The material composition is an optimized blend of different polyethylene types:

- approx. 45% Type A – low melt index polyethylene (high molecular weight) providing flexibility,
- approx. 45% Type B – medium stiffness polyethylene ensuring durability and toughness,
- approx. 10% Type C – high strength polyethylene for enhanced mechanical resistance.

This formulation results in bags that are flexible, tear-resistant, mechanically strong, and suitable for demanding industrial conditions.

The bags are odorless, tasteless, physiologically inert, and do not transfer substances to the packed product. They are produced in natural transparent form or, upon request, with approved food-contact pigments.

If required, approved additives such as UV stabilizers, antistatic or anti-block agents may be used. All additives comply with food contact regulations. Standard products do not contain additives that could compromise food safety or purity.



2. PHYSICAL AND MECHANICAL PROPERTIES

Property	Typical Value
Tensile strength	~25 MPa (at break)
Elongation at break	~400 %
Impact resistance (Falling Dart, ASTM D1709)	>150 g
Tear resistance (Elmendorf)	~60 N (MD) / ~25 N (TD)
Hardness (Shore D)	~55
Melting temperature	~120 °C (approx. 110–130 °C)
Thickness range	30 – 150 µm (other on request)
Bag dimensions (W x L)	Width up to 1200 mm, length up to 2000 mm

Values are measured at standard conditions (23 °C) on typical film thickness of approx. 50 µm. The material combines high toughness, high elongation, and excellent resistance to puncture and tearing. Not suitable for direct exposure above 100 °C.

3. REGULATORY COMPLIANCE

Kompak In PE bags comply with all relevant regulations for materials intended to contact food:

- Regulation (EC) No. 1935/2004
Materials do not endanger human health and do not change food composition, taste, or odor.
- Regulation (EC) No. 2023/2006 (GMP)
Production follows Good Manufacturing Practice with full traceability and hygiene control.
- Regulation (EU) No. 10/2011
All polymers, monomers, and additives are listed on the positive list and comply with global and specific migration limits.
- FDA 21 CFR §177.1520
Raw materials comply with FDA requirements for olefin polymers intended for food contact.
- REACH Regulation (EC) No. 1907/2006
No SVHC substances above 0.1% w/w. No heavy metals, phthalates, BPA or restricted substances.
- Serbian legislation
Complies with national regulations for food contact materials.



4. CERTIFIED MANAGEMENT SYSTEMS

Kompak In operates under a fully integrated management system certified by InterCert:

- ISO 9001:2015 – Quality Management System
- ISO 14001:2015 – Environmental Management System
- ISO 22000:2018 – Food Safety Management System
- ISO 45001:2018 – Occupational Health & Safety Management
- Codex GHPs / HACCP – Food Hygiene & HACCP System

Scope:

Production and distribution of polyethylene bags and films for food and industrial sectors.

5. HALAL STATEMENT

The production process does not use any raw materials, additives or processing aids of animal origin.

No pork-derived substances, alcohol-based components or non-halal ingredients are used.

The product is suitable for halal environments. A Halal statement or certificate can be issued upon request.

6. LABORATORY TESTING

Laboratory testing is performed periodically and/or per customer requirement by accredited laboratories (e.g. CIN – Center for Food Analysis, Belgrade):

- Global migration testing
- Specific migration testing (metals, additives, controlled substances)
- Microbiological testing

Standards applied:

- EN 1186 series (migration tests)
- ISO 17025 accredited chemical methods
- ISO 18593, ISO 4833, ISO 6579 and others for microbiology

Results confirm compliance with EU and national regulations.

7. TRACEABILITY

Each batch is fully traceable through:

- Raw material batch identification
 - Production date and lot number
 - Internal production records
 - Laboratory reports linked to production batches
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8. APPLICATIONS

- Food industry: direct food packaging, liners, secondary packaging
 - Pharmaceutical industry: powders, granulates, intermediates
 - Chemical industry: high-purity chemicals, additives
 - Cosmetics, medical, and electronics (including antistatic variants)
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9. STORAGE CONDITIONS

Store in dry, clean, and cool conditions:

- Temperature: 5 °C to 30 °C
- Relative humidity: max. 75%
- Avoid direct sunlight and heat sources

Keep bags in original packaging until use.

Apply FIFO principle (First In – First Out).

Do not stack more than two pallets unless packaging is designed for higher loads.

10. PACKAGING AND LABELING

- Bags in bundles, rolls or cartons
- Protected by PE wrapping or cartons
- Palletized and stretch-wrapped

Each package includes:

- Product code
- Dimensions
- Quantity
- Production date
- Batch number
- Food contact symbol (glass & fork)
- Recycling symbol

11. SHELF LIFE

Minimum shelf life:

24 months from production date under proper storage conditions.

12. DECLARATION OF COMPLIANCE

Kompak In hereby declares that the polyethylene bags intended for food contact described in this document:

- Are manufactured exclusively from approved virgin materials,
- Comply with EU Regulations 1935/2004, 2023/2006, 10/2011,
- Comply with FDA 21 CFR 177.1520,
- Comply with REACH Regulation 1907/2006,
- Are produced under certified ISO management systems,
- Are safe for intended food contact use under normal conditions of storage and packaging.

This declaration is based on:



- Supplier statements of conformity for raw materials,
- Accredited laboratory test results,
- Internal quality control systems.

The declaration applies to all products manufactured according to the described specifications until revised.

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Issued by:
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