

Overview of Packaging Materials for Consumables

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Abstract

Every day, five to six million tons of waste are generated worldwide. That adds up to more than two billion tons per year, making it a genuine global issue. These huge amounts of waste are not only a threat to the environment, but also to public health and the economy. As stated by the United Nations: “Bringing waste under control is not enough – we have to move from waste management in a linear economy to resource management in a circular way.” The path to circular resource management includes strict waste separation, which facilitates the reuse and recycling of raw materials.

In addition, lab employees are facing packaging materials made from a variety of different materials.

Nonetheless, there are ways to reduce the volume and weight of critical waste by smart handling of packaging materials.

Have a look into the packaging materials used for Eppendorf Consumables and contact your facility or local waste management company to understand the available

recycling options for your organization and help increasing the amount of recovered raw material. We at Eppendorf are making and will make further efforts to reduce the resources used for packaging, to design efficient or alternative solutions for packaging and where possible consider concepts of the circular economy.



Introduction

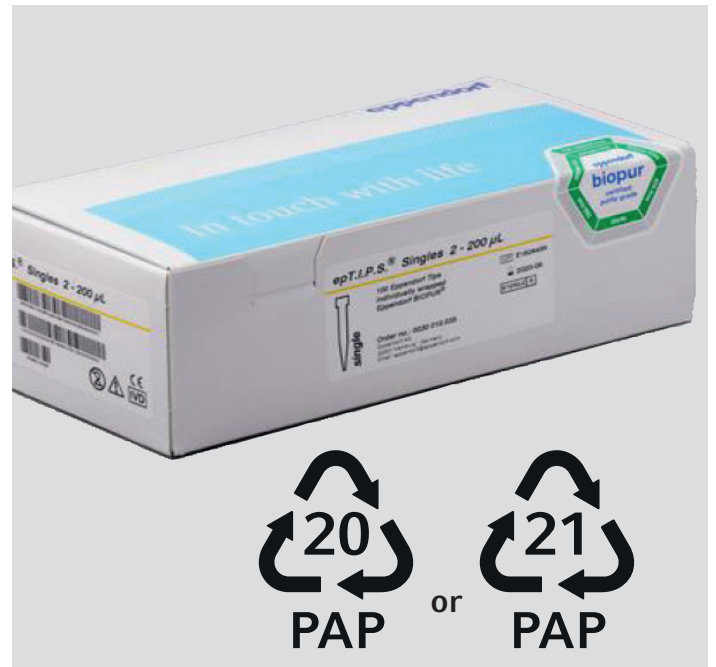
Materials in transport and product packaging of all Eppendorf products

The packaging material of the Eppendorf Consumables is made of different materials – for the most part made from cardboard. Transport and product packaging primarily consists of cardboard packaging with a high proportion of recycled fibers.

Please support our global sustainability initiative to recycle valuable raw materials by collecting the cardboard packaging material in the designated collection containers in your company and region.



Example of transport packaging



Example of product packaging










Materials in primary packaging of selected Eppendorf products

Primary packaging is often directly associated with the product as the product often depends on the primary packaging for its properties. For the majority the primary packaging is currently still made of a composite material. This is necessary to ensure the required functionality, sterility, and transport reliability. The search for substitute materials for these kinds of packaging components has been initiated.












With the help of our packaging guide, we would like to give you an overview about the packaging materials we use for our consumables (see page 3).

We recommend, to select a dedicated recycling partner where the materials can be recycled. Contact your facility or local waste management company to understand the available recycling options for your organization.






Materials in primary packaging of selected Eppendorf products

| | Medical paper ♻️ 22 PAP | LDPE (Low Density Polyethylene) ♻️ 04 PE-LD | Composite Material ♻️ 07 0 | |
|---|-------------------------------|--|----------------------------------|--|
| epT.I.P.S.®  Standard/Bulk (Eppendorf Quality) | ■ | ■ | ■ | epT.I.P.S.® Singles  Single Blister (Biopur) Dust bag around Single Blister |
| epT.I.P.S.® Box 2.0 epT.I.P.S.® Reloads epT.I.P.S.® BioBased Reloads  Foil around Box 2.0 (Eppendorf Quality) | | | ■ | epT.I.P.S.® Racks epT.I.P.S.® Motion Racks/Safe Racks  Foil (Eppendorf Quality, PCR clean, Sterile, PCR clean and sterile, Forensic Grade Biopur) |
|  Foil around Reloads (Eppendorf Quality, PCR clean, Biopur, PCR clean and sterile) | ■ | | ■ | epT.I.P.S.® Motion Reloads  Sealing layer Polyethylene terephthalate (PET) Tray (Eppendorf Quality, PCR clean) |
| Combitips® advanced Racks Foil (Eppendorf Quality) | | | ■ | Combitips® advanced  |
| Eppendorf Serological Pipets  Single Blister | ■ | | ■ | Single Blister (Forensic Grade, Biopur)  Bulk (Eppendorf Quality, PCR clean) |

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|--|-------------------------------|--|----------------------------------|--|
| Tubes (3810X, Eppendorf Safe-Lock, LoBind®) Bags (Eppendorf Quality, PCR clean, Forensic Grade)  | | ■ | | Eppendorf PCR Tubes Eppendorf PCR Tube Strips Bulk (PCR clean)  |
| Single Blister (Biopur)  | ■ | | ■ | Eppendorf Tubes 5.0 mL Bags (Eppendorf Quality, PCR clean, Forensic Grade)  |
| Dust bag around Single Blister | | ■ | | |
| Conical Tubes 15/50 mL SnapTec® 50 Bags (Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free)  | | | ■ | Eppendorf Conical Tubes 25 mL Bags (Eppendorf Quality, PCR clean)  |
| Foil around Rack (Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free)  | | | ■ | Bags (Sterile, pyrogen-, DNase-, RNase-, human and bacterial DNA-free)  |
| Single Blister (Forensic Grade) | ■ | | ■ | Eppendorf CryoStorage Vials Bags  |
| Dust bag around Blister | | ■ | | |
| Single Tube Stand Bags  | | | ■ | Tube & Cuvette Racks Bags  |

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| Eppendorf Plates (DWP, MTP, LoBind)  Bags (PCR clean, sterile) | | ■ | ■ | twin.tec® PCR Plates  Bags (PCR clean) |
| Wide-neck bottles  Polypropylen (PP) Spunbond bag for 400 mL Wide neck bottle | ■ | | ■ |  Single Blister (Forensic Grade) Dust Bag around Single Blister |
| Eppendorf Assay/Reader Microplates Bags (PCR clean, sterile) | | ■ | | Sealing options  Bags (PCR clean) |

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