

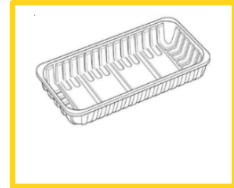
TECHNICAL NOTICE - SORTING

Detectability of PALAMIDIS S.A. / BLACK PET LID FOR PAPER PUNNET
040.001546 packaging at sorting centers

APPLICATION DESCRIPTION

General information

APPLICANT	PALAMIDIS S.A.
APPLICATION DATE	2025
PACKAGING BRAND - ITEM	BLACK PET LID FOR PAPER PUNNET 040.001546



Description of packaging

PACKAGING TYPE	PET Tray
COLOR	Black
THICKNESS	Min 350mic

Materials

BODY	PET, 2% min & 3% max black colorant Details of the colorant used are confidential. The exact reference of the colorant was provided to COCET to enable it to issue this notice.
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Purpose of the application

To test the detectability at French sorting centers of the dark packaging BLACK PET LID FOR PAPER PUNNET 040.001546, which is provided by PALAMIDIS S.A..

This Notice relates to the detectability of the packaging, and not to its whole behaviour in a French sorting center, nor on its recyclability.

TECHNICAL CONCLUSIONS

Given the evidence provided to COCET, and in view of the results presented in the test reports from optical sorting (O.S.) equipment manufacturers, PALAMIDIS S.A. PET LID FOR PAPER PUNNET 040.001546 black packaging is detectable by optical sorting in conditions representative of the technology used in French household packaging waste sorting centers.

This packaging containing the tested colorant solution at a concentration of 2% to 3% can therefore be detected as colored PET packaging with a satisfactory level of performance.

Although COCET is issuing a positive opinion regarding the detectability of PALAMIDIS S.A. PET LID FOR PAPER PUNNET 040.001546 black packaging, this opinion provides no indication of its recyclability.

Moreover, COCET reserves the right to review its opinion if the company modifies the packaging composition, e.g. by :

- modifying the resin¹;
- using recycled materials/production scrap potentially containing carbon black;
- modifying the colorant solution and/or its proportions.

¹The term "resin" is used to refer to the type of polymer used, i.e., "PP," "PET," "HDPE," or "PS." This notice remains valid even if the supplier of the tested polymer type changes.

FIND OUT MORE

The extension of sorting guidelines to all plastic packaging has led to the modernization of sorting centers in France. In particular, centers are automating their processes and acquiring optical separators using near infrared technology.

This step in the sorting process is critical to separating plastic packaging. It enables packaging to be sorted by resin and color.

At this step in the sorting process, undetectable packaging is rejected by sorting centers and sent for energy recovery.

Carbon black pigment, which is currently widely used for dark-colored packaging, absorbs infrared light emitted by the optical sorting equipment and returns no signal. Consequently, the packaging is not detected and therefore neither sorted nor recycled.

PALAMIDIS S.A. packaging is a Black PET packaging using an alternative colorant solution to carbon black at a concentration of 2% to 3%. Details of the colorant used are confidential. The exact reference of the colorant was provided to COCET to enable it to issue this notice. The results of static and dynamic tests performed at the test centers of the two O.S. manufacturers (PELLENC SA and TOMRA) according to the COCET procedure were positive. The PALAMIDIS S.A. PET packaging were detected and channeled to the PET stream with the same level of performance (quality, capture rate) as other rigid PET household packaging waste.

The conclusions set out in this notice are based on a set of commitments undertaken by each of the parties indicated below.

PALAMIDIS S.A. undertook to :

- Use the sorting procedure provided by COCET ("COTREP optical sorting test procedure for assessing the detectability of dark packaging at optical sorting stages" - version of July 2024);
- Perform tests on the premises of two O.S. manufacturers representative of existing sorting facilities in France;
- Submit test reports to COCET for its analysis and opinion;
- Offer a colorant solution that :
 - o Meets the essential requirements of the Packaging and Packaging Waste Directive (92/5/62/EC).
 - o Does not alter the density of the packaging: the density of packaging mainly consisting of PP or PE must be < 1 and > 1 for packaging mainly consisting of PET or PS (excluding PSE, XPS).

The O.S. manufacturers made an undertaking to COCET to:

- follow the procedure in its entirety;
- perform tests using technologies and machine settings representative of those used in current sorting centers and under normal operating conditions.

Paris, 17/10/2025.

