

Certificate

Determination of the overall migration of sintered PE sticks

Client: Tridelta Siperm GmbH, Ostkirchstr. 177, 44287 Dortmund
Order: PA-1254-24
Sample: weight and grey test sticks with the following description: HP 10, HP 20S, HP 20, HP 40, HP FI, HP FI-R
Date: 17.02.2025

The assessment of the overall migration of porous PE materials mentioned above is based on the test results from Fraunhofer IVV test order PA-1254-24. (Fraunhofer IVV revised test report PA-1254-24 dated 31.10.2024).

The determination of the overall migration into the simulants 3 % acetic acid and 95 % ethanol as an alternative to the determination of the overall migration into oil by total immersion, each at the test conditions 10 d / 40 °C was performed according to the European standard EN 1186-3:2022-10.

The overall migration limit is set at 10 mg/dm² according to Art. 12 of the European Plastics Regulation (EU) No. 10/2011 (last amended by Regulation (EU) No. 2023/1627).

The analytical tolerance is set at ± 2 mg/dm² for aqueous simulants and 95 % ethanol.

The investigated PE sticks comply with the overall migration limit in contact with all types of food at long-term storage at room temperature and below, including hot filling (e.g. 2 h / 70 °C or 15 min / 100 °C).

It should be noted that the investigations were carried out on test sticks. Since the materials are porous sintered materials, it is not known to what extent the food simulant can penetrate the materials in a real application. The sample geometry may have an influence on the migration values.

Fraunhofer Institute
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Freising, 17.02.2025

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