

JP Food Contact Material - Positive List Declaration of Compliance

Company Endress+Hauser Conducta GmbH+Co. KG
Dieselstraße 24, 70839 Gerlingen, Germany

as a manufacturer of products for liquid analysis declares, that the product

Product **CPS77E**
CPS47E

Regulations We declare that the above named product is conform to the Positive List in appendix I of Japan's MHLW Notification No. 370 (Notification No. 196 of 2020) announced on 28th April 2020.

The following process contact parts are used:

Process contact parts	Material group	Material
Process seal	Rubber	FKM
Sensor shaft	Plastic	PEEK
Adhesive	Adhesive	Epoxy Resin
Chip housing	Plastic	PEEK
Junction	Ceramic	Zirconium dioxid
Chip seal	Rubber	FFKM
ISFET Chip	Metal oxide	Metal oxide based on Tantalum pentoxide

Further information

PEEK:

Base polymer No 45; CAS No.: 29658-26-2 or 31694-16-3

Synthetic Resin Group: No. 1

Food category: all (acidic, fat/oil, fatty/oily, milk/milk product, alcoholic beverage, others)

Maximum Temperature: III (T_{max}>100 °C) for all food categories

Epoxy Resin:

We have no information on the adhesive hence it must be considered as non-compliant with the positive list.

The adhesive falls into category III according to the modeling based on Resolution ResAP (2004)4. Category III includes products with very limited contact with food, resulting in negligible migration. This means that the R-total value is less than 0.001, and therefore, migration tests are not recommended. The following conditions were assumed:

- Maximum contact area: 38 mm²
- Temperature: 130 °C
- Time: 8 hours per day
- Mass flow: 0.001 kg/s
- Lifetime: 1 year

These conditions also cover lower temperatures, as the migration potential decreases with a lower temperature.

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The epoxy was tested in accordance with chinese GB 4806.15 - 2014. The following tests were conducted with a surface-to-volume ratio of 1 dm²/kg of food.

Test	Limit	Assessment	Method and conditions of verifying compliance
Overall migration [mg/dm²]			
Acetic acid 4 % 100 °C, 4 h	≤ 10	Pass	GB 31604.8-2021
Ethanol 95 % reflux, 4 h	≤ 10	Pass	GB 31604.8-2021
Isooctane 60 °C, 4 h	≤ 10	Pass	GB 31604.8-2021
Other [mg/kg]			
KMNO ₄ consumption	≤ 10	Pass	GB 31604.2-2016
Water 60 °C, 2 h			
Heavy metal migration (as Pb)	≤ 1	Pass	GB 31604.9-2016
Acetic acid 4 % 60 °C, 2 h			
Migration of Epichlorohydrin	N. D.	Pass	GB 31604.26-2016
Acetic acid 4 % reflux, 6 h			
Ethanol 95 % reflux, 6 h			
Olive oil 100 °C, 6 h			

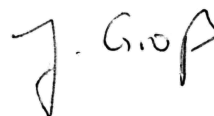
Remarks The product has to be cleaned before use.

This declaration relates exclusively to the positive list. No further tests were carried out.

This declaration of conformity is to emphasize that the customer is obliged to test the product with regard to its suitability in the application. This declaration of conformity is only valid for the listed product as supplied to customer.

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16.04.2025



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