

# Declaration of Food Contact Conformity

Semi-Finished Plastic Products



## CENTRODAL MD FG / POM MD FG

Material:	CENTRODAL MD FG / POM MD FG dark blue
Article Group:	25
Composition:	Polyoxymethylene C magnetically detectable

We confirm that the above-named **semi-finished product** complies with the requirements

- Of the European Regulation (EC) No. 1935/2004 and the German Food and Feed Code (LFGB)
- Of the European Regulation (EC) No. 10/2011 (replaces EC Directive 2002/72/EC) resp. German Consumer Goods Ordinance

CENTRODAL MD FG / POM MD FG dark blue can be freely used for the production of final products for repeated contact with all food categories. Products manufactured with it permit use under all contact conditions, including heating at 70 °C for up to 2 hours or heating at 100 °C for up to 15 minutes, which is not followed by long-term storage at room temperature or cooling.

The Regulation (2023/2006EC) on Good Manufacturing Practice (GMP) establishes rules for manufacturing materials and articles that are intended to come into contact with food. That means during the production processes, Centroplast is subject to the philosophy of GMP quality security system, quality control system and documentation.

The products above do not contain any “dual use” additives according to EU regulation No 1334/2008.

The traceability of our semi-finished product is in accordance with Regulation (EC) No.1935/2004 guaranteed for all production stages. Our food grade semi-finished products are marked with the “glass & fork” symbol and accompanied with the conformity declaration document, certificate of conformity incl. production order number.



### 1.0 Audit scope for migration tests on account of the use

The determination was made according to methods 80.30-1(EC) to 80.30-18(EC) of the official collection of examination procedures in § 64 LFGB [Food and Feed code]. The migration tests were carried out under the standard tests OM 3 (2 h, 70 °C) defined in Table 3 of Regulation (EC) No.10/2011.

Simulant A (3% acetic acid), simulant B (10% ethanol) and simulant D2 (vegetable oil) were used as food simulants.

In addition, a migration attempt with simulants A and B over a contact time of 2 h at 40°C was carried out to determine the specific migration of an additive.

There was 200 ml food simulant per dm<sup>2</sup> surface used.

Since it concerns a re-usable material, migration attempts were carried out 3 times with the same test samples. The compliance with food additive specifications is to be judged on the basis of the results obtained from the third test.

# Declaration of Food Contact Conformity

Semi-Finished Plastic Products



## CENTRODAL MD FG / POM MD FG

### 2.0 Test results of the migration tests according to (EC) No. 10/2011

#### 2.1 Global Migration

CENTRODAL MD FG / POM MD FG	Result	Max. permitted migration*
3% Ethanol (simulant A) 3 x 4 h, reflux (OM 6)	< 1 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup> (60 mg/kg food)**
10% Acetic acid (simulant B) 3 x 4 h, reflux (OM 6)	< 1 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup> (60 mg/kg food)**
Vegetable oil (Simulant D2) 3 x 4 h, 100 °C (OM 6)	7,3 mg/dm <sup>2</sup>	10 mg/dm <sup>2</sup> (60 mg/kg food)**
(*) Regulation (EC) No. 10/2011 resp. German Consumer Goods Ordinance		
(**) According to Article 12(2) of Regulation (EU) Nr. 10/2011 the limit value given in mg/kg food is valid for materials and articles intended to be brought into contact with food intended for infants and young children.		

#### 2.2 Specific Migration

CENTRODAL MD FG / POM MD FG	10% Ethanol (Simulant A)	3% Acetic acid (Simulant B)	Sunflower oil (Simulant D2)	Max. permitted migration*
Formaldehyde (3 x 2 h, 70 °C, OM 3)	<b>17,7 mg/kg LS***</b> 2,9 mg/dm <sup>2</sup>	<b>22,5 mg/kg LS***</b> 3,7 mg/dm <sup>2</sup>	0,3 mg/kg LS*** 0,05 mg/dm <sup>2</sup>	15 mg/kg LS
Formaldehyde (3 x 2 h, 40 °C, OM 3)	1,6 mg/kg LS*** 0,27 mg/dm <sup>2</sup>	2,2 mg/kg LS*** 0,37 mg/dm <sup>2</sup>	not determined	15 mg/kg LS
1,3,5-Trioxan (3 x 2 h, 70 °C, OM 3)	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	5 mg/kg LS
1,3-Dioxolan (3 x 2 h, 70 °C, OM 3)	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	5 mg/kg LS
Melamine (3 x 2 h, 70 °C, OM 3)	<0,2 mg/kg LS*** <0,03 mg/dm <sup>2</sup>	<0,2 mg/kg LS*** <0,03 mg/dm <sup>2</sup>	<0,2 mg/kg LS*** <0,03 mg/dm <sup>2</sup>	2,5 mg/kg LS
Triethylenglykol-bis((3-(3-tert-butyl-4-hydroxy-5methylphenyl)propinat (3 x 2 h, 70 °C, OM 3)	<1 mg/kg LS*** 0,17 mg/dm <sup>2</sup>	<1 mg/kg LS*** 0,17 mg/dm <sup>2</sup>	<2 mg/kg LS*** 0,33 mg/dm <sup>2</sup>	9 mg/kg LS
Iron compounds (as iron) (3 x 2 h, 70 °C, OM 3)	<0,5 mg/kg LS*** <0,083 mg/dm <sup>2</sup>	0,11 mg/kg LS*** 0,02 mg/dm <sup>2</sup>	1,2 mg/kg LS*** <0,2 mg/dm <sup>2</sup>	48 mg/kg LS
(*) Regulation (EC) No. 10/2011 resp. German Consumer Goods Ordinance				
(***) <b>The results are related to a surface-to-volume ratio of 6 : 1.</b>				
The results are related to a surface-to-volume ratio of 6 : 1. Other surface-to-volume ratios result in differing specific migration values. To check the compliance, in special cases the specific migration values have according to Article 17 of Regulation (EU) No. 10/2011 to be expressed in mg/kg food applying the real surface-to-volume ratio in actual or foreseen use.				
LS = food or food simulant				

The noted data correspond to our latest state of knowledge. The suitability of the products for special applications cannot be guaranteed legally binding, due to the a.m. properties

# Declaration of Food Contact Conformity

Semi-Finished Plastic Products



## CENTRODAL MD FG / POM MD FG

### 2.3 Odour and taste impairment of simulants for direct food contact

CENTRODAL MD FG / POM MD FG	Odour	Taste	Max. permitted migration*
Mineral water (2 h, 4 – 8 °C)	indiscernible (intensity scale 0)	indiscernible (intensity scale 0)	Intensity scale 2,5
0,2% Apple Cider Vinegar (2 h, 4 – 8 °C)	indiscernible (intensity scale 0)	indiscernible (intensity scale 0)	
10% Alcohol (2 h, 4 – 8 °C)	indiscernible (intensity scale 0)	indiscernible (intensity scale 0)	
Whole milk (2 h, 4 – 8 °C)	indiscernible (intensity scale 0)	indiscernible (intensity scale 0)	
Coconut oil (2 h, 4 – 8 °C)	indiscernible (intensity scale 0)	indiscernible (intensity scale 0)	

(\* Regulation (EC) No. 10/2011 resp. German Consumer Goods Ordinance

Intensity scale (based on DIN 10955):

- 0 = no perceptible difference
- 1 = just perceptible difference
- 2 = weak deviation
- 3 = significant deviation
- 4 = strong deviation

**The user is to be referred to the abovementioned limitations that mean the corresponding semi-finished product is only valid with this conformity declaration and the corresponding certificate of conformity incl. production order number.**

This conformity declaration is based on the extensive test results dated 06.07.2015.

#### General Notice:

For our extensive delivery program, it is not possible to measure each semi-finished product. The tests are carried out on submitted articles of the article groups. Moreover, Centroplast makes sure that generally only raw materials with corresponding suitability notices are used. Our statements are supported by the documents prepared by our suppliers' tests and migration tests carried out by third parties. It is the distributor's responsibility to test the suitability of the plastic material components made for or from our products for the intended use in the food area:

- whether the physical characteristics of the plastic material are appropriate for the intended food
- compliance with the migration limits
- possible influence of the material on the chemical characteristics of the food
- compliance with the requirements of statutory regulations
- need for appropriate cleaning of the produced work pieces before the first contact with food
- removal of the extrusion skin of the semi-finished product

The information of this conformity declaration is based on our current status and cannot be raised as a guarantee declaration. We do not assume any liability for the completeness and accuracy of the information presented here.

The Company marketing the products shall be responsible for compliance with existing laws and regulations. In case of changes in the law, guidelines, ordinances, raw materials, processing procedures, etc., this declaration shall be re-evaluated.

Insofar as changes are made, Centroplast shall make these available appropriately. Previous declarations shall then lose their validity.

Centroplast Engineering Plastics GmbH – Unterm Ohmberg 1 – 34431 Marsberg – Germany

[application@centroplast.de](mailto:application@centroplast.de) – [www.centroplast.de](http://www.centroplast.de)