



## Covenant K109700/02

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Replaces K109700/01

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### DIC.PPS Z-230-T3 BLACK and DIC.PPS Z-230-T3 BLACK-U

#### STATEMENT BY KIWA

With this Covenant, issued in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### DIC Corporation

as specified in this Kiwa Covenant and marked with the Kiwa® mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with:

Kiwa Protocol K15010 for products in contact with drinking water – for the hygienic aspects,  
and Kiwa Covenant manual K15013 for products and processes, dated 01-01-2016.

Ron Scheepers  
Kiwa

*Publication of this certificate is allowed.*

*Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.*

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## **Preface**

This Kiwa Covenant has been prepared by Kiwa Nederland B.V. and accepted by the Kiwa Committee of Covenant (KCC). The KCC also supervises the certification activities and where necessary requires the Kiwa Covenant to be revised.

This Kiwa Covenant will be used by Kiwa in conjunction with the Kiwa-Regulations for Certification. This regulation details the method employed by Kiwa for conducting the necessary investigations prior to issuing the product certificate and the method of external control. The inspection frequency is determined by the above mentioned Technical Committee and Kiwa Committee of Covenant.

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## **1 Scope of the Covenant**

"DIC.PPS Z-230-T3 BLACK" and "DIC.PPS Z-230-T3 BLACK-U" are polyphenylsulfide resins for multiple applications for materials in contact with drinking water in Netherlands. From these resins multiple end products are produced to be used in the drinking water net.

## **2 Approval**

The recipes of the products are in compliance with the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" (Materials and chemicals in the supply of drinking water and warm tap water Regulation; published in the Government Gazette).

The product recipes are laid down in the non-public 'appendix hygienic aspects' to certificate K109700.

## **3 CRITERIA HYGIENIC ASPECTS**

The product certification is based on two main criteria. It should permanently comply with the:

- product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa following the Kiwa approval procedure related to the hygienic aspects.
- specific product requirements (see "PRODUCT REQUIREMENTS HYGIENIC ASPECTS").

#### 4 PRODUCT REQUIREMENTS HYGIENIC ASPECTS

For the end products made from "DIC.PPS Z-230-T3 BLACK" and "DIC.PPS Z-230-T3 BLACK-U" the positive list mentioned in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" (published in the Government Gazette) is relevant.

The materials have been tested in accordance with the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" and have passed the test for fittings with DN ≤ 80 mm (according with the test report 032100003-0330 and 032100003-0330-1) for the following parameters: TOC, TFN, TON, Colour and EMG.

For each end product made from "DIC.PPS Z-230-T3 BLACK" and "DIC.PPS Z-230-T3 BLACK-U" compliance with all test parameters needs to be shown. The end producer of the final product is responsible for the test package.

After 30 days of testing, the maximum tolerable concentration in the drinking water (MTC<sub>drinking water</sub>) of the following substances or parameters may not exceed the limit values mentioned behind.

Parameter	MTC <sub>drinking water</sub> / limit value	Remarks
Zinc	0.25 mg/l	
1,4-dichloorbenzene	0.6 mg/l	
N-methylpyrrolidon	3 mg/l	
2,3-epoxypropylmethacrylate	1 µg/l	
di-(3,5,5-trimethylhexanoyl) peroxide	0.1 µg/l	
peroxypivalic acid, tert-butyl ester	0.1 µg/l	
isododecane	2.5 µg/l	
phenol	0.15 mg/l	
epichlorohydrine	0.1 µg/l	
1,2-epoxyethane	0.1 µg/l	
methacrylic acid, 2,3-epoxypropyl ester	1 µg/l	
acrylic acid	0.3 mg/l	
TOC	2.0 mg/l	
Flavour (TFN)	8	
Odour (TON)	8	
Colour	10 mg/l Pt	
Enhancement of Microbial Growth (EMG)	--	

#### 5 Marking

The product shall be provided with the following marks:

- **KIWA** 
- Manufacture's name, trade name;
- Material identification;
- Production code.

Location of the mark: On the packaging / On the delivery receipt.

After a signed Kiwa certification agreement, it is obliged to mark the product indelible.

## **6 Quality system requirements**

### **6.1 General**

This chapter contains the requirements that have to be met by the supplier's quality management system.

### **6.2 Manager of the quality system**

Within the organizational structure an employee must be appointed to be responsible of managing the quality system.

### **6.3 Internal quality control/quality plan**

The supplier must have an implemented and operational internal quality control scheme in place (IQC-scheme).

In this IQC-scheme the following must be demonstrably recorded:

- materials used in the product;
- which aspects are checked by the manufacturer;
- according to which methods these inspections are carried out;
- how often these inspections are carried out;
- how the inspection results are registered and stored.

This IQC-scheme shall be derived from the example format as shown in the annex. The scheme must be detailed in such a way that it provides Kiwa sufficient confidence that the requirements of this Covenant are continuously fulfilled.

### **6.4 Management of laboratory- and measure apparatus**

The supplier must determine which laboratory- and measure apparatus are needed based on this Covenant in order to demonstrate that the product fulfils the requirements.

When applicable laboratory- and measure apparatus need to be calibrated at specified intervals.

The supplier needs to validate and register the previous measure results, when at the time of calibration is determined that the laboratory and measure devices are not operating correctly.

The apparatus in question need to be marked in such a way that can be determined what the calibration status is.

The supplier is required to register the calibration results.

### **6.5 Procedures and work instructions**

The supplier must be able to submit procedures for:

- storage of used materials and readied product;
- the handling of non-conforming products;
- corrective actions in case non-conformities are found;
- the handling of complaints regarding the products and/or services supplied;
- managing work instructions and inspection sheets in use.

### **6.6 Other quality system requirements**

The supplier must be able to submit:

- an organization chart;
- qualification requirements of the involved staff.

## 7 Initial inspection and continuous surveillance by Kiwa

### 7.1 Summary of tests and inspections

This chapter contains a summary of the following tests and inspections to be carried out in the event of certification:

- Initial type tests;
- Inspections;
- Control of the supplier's the quality system.

### 7.2 Test matrix (DIC.PPS Z-230-T3 BLACK and DIC.PPS Z-230-T3 BLACK-U)

Table 1 – test matrix

Description of requirements	Tests within the scope of:	
	Initial investigation	Inspections <sup>1)</sup>
Pyrolysis fingerprinting	X	X

1) The inspector samples for the yearly tests.

### 7.3 Inspection of the quality system

The quality system will be checked by Kiwa on the basis of the IQC scheme.

The inspection contains at least those aspects mentioned in the Kiwa Regulations for Certification.

## 8 Agreement on the implementation of certification

### 8.1 General

Beside the requirements included in this Covenants, also the general rules for certification as included in the Kiwa Regulations for Certification apply.

In particular, these are:

- The general rules for conducting the initial type tests, to be distinguished in:
  - the way suppliers are to be informed about an application is being handled;
  - how the test are conducted;
  - the decision to be taken as a result of the pre-certification tests;
- The general directions for conducting inspections and the aspects to be audited;
- The measurements to be taken by Kiwa in case of Non Conformities;
- Measurements taken by Kiwa in case of improper Use of Certificates, Certification Marks, Pictograms and Logos;
- Terms for termination of the certificate;
- The possibility to lodge an appeal against decisions of measurements taken by Kiwa.

### 8.2 Report initial investigation

Kiwa records the results of the initial investigation in a report. This report shall comply with the following requirements:

- completeness: the reports verdicts about all requirements included in the Covenant;
- traceability: the findings on which the verdicts have been based shall be recorded traceable;
- basis for decision: the decision maker shall be able to base his decision on the findings included in the report.

### 8.3 Nature and frequency of external inspections

Kiwa shall enforce inspections at the supplier's site to investigate whether the obligations are met. At the time of validation of this Covenant this frequency has been fixed at 1 inspection visits per year.

Inspections shall invariably include:

- The IQC-scheme of the supplier and the results of tests carried out by the supplier;
- The correct marking of the certified products;
- The compliance with the required procedures.

The findings of the inspection visits performed shall be traceably recorded, by the certification body, in a report.

#### **8.4 Sanction policy**

The sanction policy and the weighing of the non-conformities is available through the service page on the website of Kiwa.

### **9 Conditions under which the fitness for the intended use is assessed**

#### **9.1 Recommendations for customers**

Check at the time of deliver whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

DIC Corporation,  
and, if necessary,  
Kiwa Nederland B.V.

Consult the suppliers processing guidelines for the proper storage and transport methods.