

## Information for KTW-testing

### Scope

By testing according to UBA Evaluation Criteria (this is true for plastics, coatings and lubricants) and other UBA test specifications like Elastomer Guideline it is determined if substances from the tested non-metallic product are released into the drinking water and therefore non tolerable changes of the drinking water could occur.

### Recipe (chemical formulation)

Recipe means the detailed chemical composition of the material that is used to manufacture the product. The recipe in dependence of the material type has to be in accordance with the requirements of UBA's evaluation criteria or guidelines.

Hence we need the complete disclosure of the recipe for assessment. At this all used substances and additives have to be listed. This list has to contain the chemical name of the compound inclusive the CAS registry number, trade name, the percentaged addition of the particular substance and the function of the substance. Please use our form.

For the disclosure of the recipe a secrecy agreement can be concluded, for which we will send you our template.

### Migration test

After passing the examination of the recipe, the migration test will be performed over a time period of 10 days according to the requirements of the Evaluation Criteria respective Elastomer Guideline according to DIN EN 12873-1. The test is always performed at  $23 \pm 2$  °C. In addition the temperature ranges of  $60 \pm 2$  °C and  $85 \pm 2$  °C can be included. In the test water the basic requirements and the additional requirements that are arising from the recipe composition will be examined. For multilayer products the migration test has to be performed for 31 days.

The required test samples for the migration tests should to be agreed directly with our contact persons.

### Testing costs

The testing costs are determined by the material composition and the field of application. The calculation of the costs is based on following test steps.

Recipe review (depending on complexity)

Migration test cold water basic requirements

Additional requirements cold water according the recipe (x = number of substances to be analysed).

Migration test warm water (60° C) or hot water (85° C) basic requirements

Additional requirements warm water (60° C) or hot water (85° C) according the recipe (x = number of substances to be analysed)

Information about the test fees can be given on request.

## **Test duration**

The test-duration depends basically on the completeness of the recipe disclosure. It has to be considered, that often pre-suppliers have to be involved in the recipe review. In this case we also conclude confidential disclosure agreements with the pre-suppliers.

After positive recipe review the test-duration for the cold water and warm or hot water tests is usually about 10-12 weeks.

## **Additional information**

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# Customer Product Producer

# TZW Test Centre

# KTW

UBA evaluation criteria or guidelines  
<http://www.umweltbundesamt.de/themen/wasser/trinkwasser/trinkwasser-verteilen/bewertungsgrundlagen-leitlinien>

owner of the composition

Secrecy Agreement  
Disclosure of the composition details

informed

1)

order for composition check-up

composition check-up  
(evaluation of documents)  
according to UBA evaluation  
criteria or guidelines

assessment time depends on the disclosure process with the owner of the composition usually 4-10 weeks

conformance with positive lists?

no



information of customer and owner of the composition about negative result

yes



2)

order for migration test  
test samples after  
consultation with TZW

migration test  
1. Cold water  
2. Warm- or hot water

test duration ca. 10-12 weeks, depending on the scope

conformance with UBA requirements?

no

test report  
→ KTW noncompliance

yes

test certificate  
→ KTW compliance

3)