Hygiene-Institut des Ruhrgebiets
Institut für Umwelthygiene und Toxikologie
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Gelsenkirchen, 08.06.2017

TEST CERTIFICATE

according to the transitional regulation of the Elastomer-Guideline

Product: **KLINGERSIL® C-4430 plus**

Specimen: plates, measuring: 297 mm x 210 mm x 2.0 mm (red marbled, back side beige printed)

The above mentioned product was tested according to the Guideline on the hygienic assessment of elastomers in contact with drinking water of the German Environment Agency. Pursuant to the test report-no.: **K-216946-12-Bs/st dated 23.05.2012** the product meets the requirements for the product group:

Seals for pipes with DN < 80 mm in contact with cold water (23°C).

All product groups for which the requirements are met are summarised on the back side.

The certificate is valid providing that the requirements, laid down in the Guideline regarding the testing of the microbial growth are fulfilled. This can be verified for the product f.e. with a valid test certificate according to the DVGW technical rule W 270.

This test certificate is valid beginning with the date of issue and is ending by **31.12.2021** as far as there are no changes in the formula.

The Director of the Hygiene-Institute
on behalf of

Dr.rer.nat. Andreas Koch
Head of the Department for
water hygienic material testing

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The assessment was based on the assumption that the used starting substances and monomers used to manufacture the product may completely known and no other substances are present in the product. The validity of this document expires in case of modifications in the composition of the product or the processing conditions. The results and evaluations refer to the groups of test items. This document may not be published without our written permission only complete and unchanged or duplicated.

The mentioned product meets the requirements according to the test report-no.: **K-216946-12-Bs dated 23.05.2012** for the following product group(s) and temperature(s), as far as technically suited.

Product group	**cold water (23°C)**	**warm water (60°C)**	**hot water (85°C)**
Pipes with DN < 80 mm (service and domestic pipes)			
Pipes with 80 mm ≤ DN < 300 mm (distribution pipes)			
Pipes with DN ≥ 300 mm (large distribution, mains)			
Fittings for pipes with DN < 80 mm			
Fittings for pipes with 80 mm ≤ DN < 300 mm			
Fittings for pipes with DN ≥ 300 mm			
Seals for pipes with DN < 80 mm	passed		
Seals for pipes with 80 mm ≤ DN < 300 mm	passed		
Seals for pipes with DN ≥ 300 mm	passed		
Containers in the drinking water installation including repair systems			
Containers outside the drinking water installation including repair systems			
Repair systems for containers in the drinking water installation with 1/100 of the surface area of the container	passed		
Repair systems for containers outside the drinking water installation with 1/100 of the surface area of the container	passed		
Small contact area components of materials for pipes with DN < 80 mm that are only installed in one place in the distribution system (e.g. plain bearing of a pump)	passed		
Small contact area components of materials for pipes with 80 mm ≤ DN < 300 mm, that are only installed in one place in the distribution system (e.g. plain bearing of a pump)	passed		
Small contact area components of materials for pipes with DN ≥ 300 mm, that are only installed in one place in the distribution system (e.g. plain bearing of a pump)	passed		

If further products or components with the same formulation are produced with the same process at one production site and differ only in geometry, this test certificate applies to further parts of this product range.