

KOMO[®]

product certificate

Number	K43194/02	Replaces	K43194/01
Issued	2015-12-01	Dated	2006-10-19
Valid until	Indefinite	Page	1 of 2

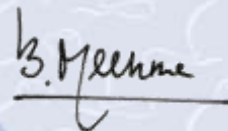
Flexible cross-linked polyethylene foam

UPONOR GmbH

STATEMENT BY KIWA

This product certificate is issued on the basis of BRL 5609 "Pre-insulated flexible plastics piping systems for warm water distribution outside buildings" issued on 6 January 2014 by Kiwa, in accordance with the Kiwa Regulations for Product Certification.

Kiwa declares that legitimate confidence exists that the by the producer manufactured Flexible cross-linked polyethylene foam comply with the technical specifications as laid down in this product certificate, provided that Flexible cross-linked polyethelene foam have been marked with the KOMO[®]-mark in the manner as indicated in this product certificate.



Bouke Meekma
Kiwa

The certificate is listed in the overview on the website of Stichting KOMO: www.komo.nl.
Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.
This product certificate is only valid in combination with a KOMO certified plastics piping system.

Kiwa Nederland B.V.
Sir Winston Churchilllaan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands

Tel. +31 88 998 44 00
Fax +31 88 998 44 20
info@kiwa.nl
www.kiwa.nl

Certificate holder
Uponor GmbH
Industriestr. 56
D-97437, Hassfurt
Germany
Tel. +49 9521 6900
Fax +49 9521 690105
www.uponor.de

Production location
Termonova Oy
Torppanummentie 44
FIN-10210 NKOO
Finland
Tel. +358 9 925 9020
Fax +358 9 221 1763
www.termonova.fi



Evaluated is:
quality system
product
Periodic inspection

Flexible cross-linked polyethylene foam

PRODUCTSPECIFICATIE

Flexible cross-linked polyethylene foam for flexible piping systems with plastics medium pipe for warm water distribution according to BRL 5609: Pre-insulated flexible plastics piping systems for warm water distribution outside buildings.

Detailed specification

The flexible cross-linked polyethylene foam as mentioned in the table below belongs to this product certificate.

Declared thermal conduction coefficient λ_D at different average temperatures	Average temperature [°C]	λ_D [W/(m.K)] *
	10	0.038
40	0.045	

MARKING

The products shall be marked with the KOMO[®] mark.

The isolation material is part of a piping package. The piping package exists of:

- PE-X medium carrying pipes provided with an oxygen barrier layer (colour: white)
- Dog bone from PE-X foam (only for twin pipe system)
- PE-X isolation layer around the medium carrying pipe
- HDPE corrugated outer casing pipe around the isolation layer (colour: black)

The corrugated outer casing pipe may only be marked with KOMO[®] in case all parts of the piping package (including isolation material) fulfill the requirements of BRL5609, part A. The corrugated outer casing pipes are provided with the following marks:

- word mark KOMO[®] or logo;
- manufacturer's name, trade name or system name;
- material indication inner pipe: PE-X;
- class DH1;
- design pressure: 6 bar;
- nominal outside diameter of the ducting pipe in mm;
- number of inner pipes with nominal outside diameter and wall thickness in mm;
- production code.

The realization of these marks is as follows: clear and non-erasable at intervals of not more than 2 m.

LOGISTICS

Production and assemblage of the system is laid down in the annex of the certification agreement.

APPLICATION AND USE

The products are intended to be used for flexible piping systems for warm water distribution with an operating temperature profile according to class DH1 of KOMO evaluation guideline 5609 and an allowable working pressure of maximum 6 bar.

RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery 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:

- UPONOR GmbH
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.

CONSTRUCTION PRODUCTS REGULATIONS

If a construction product is subject to a European harmonised technical specification, the statements in this KOMO product certificate must not be used as a replacement for the CE marking on such construction product and/or for the associated obligatory Declaration of Performance.