

# Amendment BRL K17301

## Plastics piping systems of PVC for the transport of drinking water and raw water

Date amendment sheet: Review [dd-mm-yyyy]

Approved by the Board of Experts CWK d.d. [dd-mm-yyyy]

### General

The use of this amendment by third parties, no matter the purpose, is only permitted after a written agreement has been concluded with Kiwa regulating the right of use.

### Validity

This amendment belongs to BRL K17301 dated 29-10-2021.

The product certificates issued based on that evaluation guideline lose their validity on [dd mm yyyy].

### Binding declaration

This amendment is declared binding by Kiwa on [dd mm yyyy].

### Description of the change

- *Correction of error in table 7;*
- *Requirements for POM fittings:*
  - Paragraph 6.5 as described below is added;
  - Paragraph 9.3 shall be extended with the test matrix as described below.

*Correction of error in table 7*

### 6.2.6.2 Assessment of the effect of heating

Replace in de 5<sup>th</sup> row 10 by 30.

**Table 7 – heating time for fittings with various mean wall thicknesses**

Mean wall thickness ( $e_m$ ) expressed in mm	Heating period expressed in minutes
$e_m \leq 3$	15
$3 < e_m \leq 10$	30
$10 < e_m \leq 20$	60
$20 < e_m \leq 40$ <del>30</del>	140
$30 < e_m \leq 40$	220
$40 < e_m$	240

*Requirements for POM fittings:*

### 6.5 Fittings made of POM

Conform BRL K17105 §6 with the exception of:

#### BRL K17105:

- **§6.2.1 Material**  
“PE pipe conforming to EN 12201-2” should be replaced with “pipe conform §5 of this BRL”.
- **§6.2.3 Metals**  
Is not relevant
- **§6.3.3 Colour of plastic fittings**  
Additional colours are stated in BRL K17301 §4.6.2.
- **§6.4.3 Wall thickness of metal fittings**  
Is not relevant
- **§6.6 Other requirements of metal fittings**  
Is not relevant

### 9.3 Test matrix for fittings with elastomeric sealing rings

Test matrix – Fittings made of POM §6.5

Description of requirements	Clause BRL K17301	Clause BRL K17105	Tests within the scope of:	
			Pre-certification	Control after issue of the certificate <sup>1), 2)</sup>
<b>Plastic fittings</b>				
Rubber	6.2.1		x	x
Classification		6.1	x	x
Toxicological requirements	4.2	4.2	x	x <sup>3)</sup>
Material - general		6.2.1	x	x
Material - Plastics		6.2.2	x	x
Appearance		6.3.1	x	x
Design		6.3.2	x	x
Colour	4.6.2	6.3.3	x	x
Geometric characteristics		6.4	x	x
MRS value		table 9	x	x
Effect of heating		table 9	x	x
Resistance to internal pressure		table 9	x	x <sup>3)</sup>
MFR		table 9	x	x <sup>3)</sup>
<b>Joint requirements</b>				
Leaktightness under internal water pressure		table 12	x	x <sup>3)</sup>
Leaktightness under internal pressure of assemblies subjected to bending		table 12	x	x
Leaktightness under external hydrostatic pressure		table 12	x	x
Resistance to pull-out under constant longitudinal force		table 12	x	x <sup>3)</sup>
Resistance to internal pressure		table 12	x	x <sup>3)</sup>
<b>Marking</b>				
Marking		6.7	x	x

1. In case the product or production process changes significantly, the performance requirements shall be determined again.
2. During the inspection visit, the inspector shall check the product on the basis of a selection of the above listed requirements. The frequency of the inspection visits is recorded in clause 11,6 "Nature and frequency of external inspections".
3. When applicable, once a year the inspector samples for an Audit Test.