

# Amendment BRL 2020

## TPE pipe joint seals for non-pressure waste water

Date amendment [dd maand jiji]

Validated by the Board of Experts "LSK" d.d. [dd maand jiji]

Accepted by the "Harmonisatie Commissie Bouw" of the foundation "Stichting Bouwkwiteit" d.d. [dd maand jiji]

The use of this evaluation guideline for any purpose whatsoever shall only be allowed after the conclusion of a written agreement with Kiwa in which the right of use is arranged.

### Validity

This amendment is related to BRL 2020 d.d. 1 November 2006.

Quality declarations issued on the basis of that evaluation guideline remain valid.

### Validation

This amendment has been validated by on [dd maand jiji].

### Corrections:

#### Add after 2.5.9:

##### *2.5.10 Properties for special type of products*

###### *2.5.10.1 General requirements*

A TPE ring made of an extruded profile or cord shall not contain more than one weld, separate from eventual joints between different TPE compounds, except by agreement between the manufacturer and the client.

A ring made of two TPE compounds shall not contain more than one weld in the direction of the outline of the product.

###### *2.5.10.2 Behaviour at elongation*

###### *2.5.10.2.1 TPE seals with a weld*

The weld shall not crack or contract when tested in accordance with 2.7.11.2.1 and 2.7.11.2.3.

###### *2.5.10.2.2 Seals made from two TPE compounds*

The joint shall not crack or contract when tested in accordance with 2.7.11.2.2.

#### Add after 2.7.10:

##### *2.7.11.2 Behaviour at elongation*

###### *2.7.11.2.1 TPE seals with a weld*

Elongate two TPE seals with a weld with a tensile speed of 500 mm/min to 100% elongation, unless a reduced elongation has been agreed upon by both the buyer and the manufacturer. Such agreement has to be reported to the inspection body. Keep the rings in an elongated state for at least 30 seconds.

###### *2.7.11.2.2 Seals made from two TPE compounds*

Elongate two test pieces containing the joint between the two materials with a tensile speed of 500 mm/min to 100% elongation. Keep the test pieces in an elongated state for at least 30 seconds.

###### *2.7.11.2.3 Elongation test for welded products after ageing*

After ageing for 168 hours at 70 °C in accordance with ISO 188 the test of 2.7.11.1 and / or 2.7.11.2 is repeated.

#### 4.1 Test matrix

Change table by:

Description of requirement	Article BRL	Tests within the scope of		
		Pre-certification tests	Supervision by CB after granting of the certificate	
			Control	Frequency
Marking on product	2.8	X	X	1x year
Resistance to chemicals	2.3.2	X	X	1x year
Appearance	2.4.1	X	X	1x year
Homogeneity	2.4.2	X	X	1x year
Dimensions and volume	2.4.3	X	X	1x year
Hardness	2.5.2	X	X	1x year
Hardness after ageing	2.5.2.4	X	X	1x year
Mechanical properties (*)	2.5.3	X	X	1x year
Mechanical properties (*) after ageing	2.5.3	X	X	1x year
Compression set	2.5.4	X	X	1x year
Stress relaxation	2.5.5	X (100d)	X (7d)	1x year
Stress fall	2.5.6	X	X	1x year
Resistance to ozone	2.5.7	X	X	1x year
Swelling in water	2.5.8	X	--	--
Resistance to oil	2.5.9	X	--	--
Behaviour at elongation	2.5.10.2	x	x	1x year

(\*) Tensile strength and elongation at break