

# Concept Wijzigingsblad BRL 2020

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

Datum wijzigingsblad [dd maand jiji]

Vastgesteld door CvD [naam CvD] d.d. [dd maand jiji]

Aanvaard door de Harmonisatie Commissie Bouw van de Stichting Bouwkwaliiteit d.d. [dd maand jiji]

Het gebruik van deze Beoordelingsrichtlijn door derden, voor welk doel dan ook, is uitsluitend toegestaan nadat een schriftelijke overeenkomst met Kiwa is gesloten waarin het gebruiksrecht is geregeld.

### Geldigheid

Dit wijzigingsblad behoort bij BRL 2020 d.d.1 november 2006

### Bindend verklaring

Dit wijzigingsblad is door Kiwa bindend verklaard per [dd maand jiji].

Wijzigingen:

Vervang: **"2.4 Appearance, homogeneity, dimension and volume"**

Door: **"2.4 Appearance, homogeneity and dimensions"**

### 2.4.3 Dimensions and volume

Vervang volledige paragraaf door:

#### "4.4.3 Dimensions

The nominal measurements of the TPE seals and the acceptable deviations shall be in accordance with the figures stated by the manufacturer and they shall be laid down in a drawing. Tolerances shall be specified from the appropriate classes of ISO 3302. For dimensions of O-rings also reference could be made to NEN-ISO 3601-1.

Determine the dimensions by means of appropriate measuring equipment (see ISO 23529). Test according to 2.7.3."

### 2.5.1 General

Vervang volledige tekst door:

"Unless stated otherwise, tests shall be carried out at a temperature of 23 °C according to ISO 23529.

The allowed tolerances for all mentioned test durations and test temperatures shall be according to ISO 23529.

For tests carried out at the production location during inspection, a temperature between 15 °C and 30 °C is allowed."

### 2.7.3 Dimensions and volume

Vervang volledige paragraaf door:

#### "2.7.3 Dimensions

Determine the dimensions by means of appropriate measuring equipment.

Test the findings against that which is laid down in 2.4.3."

Voeg toe na 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 possible 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."

#### "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. In case of a TPE seal made of welded coextruded profile or cord having a soft TPE and a hard plastic part (fig. 2A), a TPE part with the weld of at least 100 mm length is first cut off from the hard part (fig. 2B), and then tested (fig. 2C).

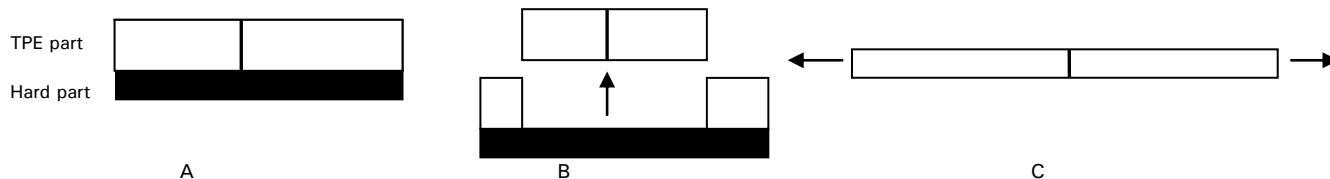


Figure 2. Test of behaviour at elongation on coextruded welded profile or cord

#### 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

Vervang door:

Description of requirement	Article BRL	Tests within the scope of		
		Initial evaluation	Supervision by Kiwa after granting of the certificate	
			Inspection <sup>1)</sup>	Frequency
Resistance against chemicals	2.3.2	X	X	1x year
Appearance	2.4.1	X	X <sup>2)</sup>	1x year
Homogeneity	2.4.2	X	X <sup>2)</sup>	1x year
Dimensions	2.4.3	X	X <sup>3)</sup>	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
Mech. 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	1 x year
Resistance against ozone	2.5.7	X	X	1x year
Swelling in water	2.5.8	X	--	--
Resistance to oil	2.5.9	X	--	--
Marking on product	2.8	X	X <sup>3)</sup>	1x year

Vervang opmerkingen door:

(\*) Tensile strength and elongation at break

- 1) In case of significant changes in the production process the product requirements shall be evaluated again (to be decided by the certification body).
- 2) These product properties are only visually controlled during the inspection. In case of reasonable doubt samples will be taken and send to an accredited test laboratory for determination of these properties.
- 3) These product properties are determined during the inspection.

### 6.1 Standards / normative documents

Verwijder:

NEN-ISO 471 Rubber; temperatures, humidity's and times for conditioning and testing

1995

