EXAMINATION REPORT
Determination of influence of heating at 110°C

PB pipes for the transport of district heating water

REPORT NUMBER
LC 11080

AUTHORISATION
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Determination of influence of heating at 110°C

*PB pipes for the transport of district heating water*

**Manufacturer:** Thermaflex Isolatie B.V.

**Place of production:** Waalwijk

**Certificate number:** K64328 DVGW

**According to standard:** DVGW W544
1. **Order**  
By order of Kiwa Nederland B.V., the samples mentioned below were tested by Lab C for determination of influence of heating at 110°C according to DVGW W544.

2. **Principle**  
The test pieces are placed into an oven for a certain amount of time. After this the test pieces are judged on changes in the material.

3. **General**  
The samples were received on 29-09-2014 and registered with number LC 11080. The test was started on 30-09-2014 and was carried out by Mr L.M. Bloeming.

4. **Sample description**  
Date of sampling : 12-09-2014  
Sampled by : Mr P.G.M. Engelberts  
Number/type of samples : 1 piece of PB pipe  
Compound : PB4237 Lyondell Basell  
Batch : NG1824BK6  
Dimensions : 25 mm  
Marking : 120-1783 Classe 2 (70C-10bars) et Classe 5 (80-6bars)  
ATEC 14/12-1783/03262557 PR14-0818 Thermaflex  
Flexalen PB 25x2,3 EN ISO 15876 Class 5:8 bar  
KIWA BRL-K17401 Class 2:10 bar (1)  
10 bar-70C 50 Jahre 0000001298 15:41:35  
Date of production : 26-03-2014

5. **Test conditions and method**  
In accordance with DIN 16968.

6. **Apparatus**  
An air circulated oven and a scriber.

7. **Preservation of samples**  
In case of failure the samples will be kept for 3 months.
8. **Test results**

<table>
<thead>
<tr>
<th>Condition of the test pieces after 2h heating 110°C</th>
<th>requirement</th>
<th>unit</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change of length</td>
<td>&lt; 2,0</td>
<td>%</td>
<td>0,01</td>
<td>0,01</td>
<td>0,02</td>
</tr>
</tbody>
</table>

9. **Conclusion**

The test pieces meet the requirements for the investigated aspects in accordance with DVGW W 544.