



Testing. Advising. Assuring.

# Test report

## No. 2018-1023

issued 18.01.2018

**Applicant:** Zimmer + Rohde GmbH  
Zimmersmühlenweg 14-18  
  
D – 61440 Oberursel

**Date of order:**  
**Date of sampling:** *no official sampling of the specimen by a representative of Exova Warringtonfire, Frankfurt*  
**Date of arrival:** 19.12.2017  
**Date of test:** 04.01.2018

**Order:**

Testing of the igniteability according to DIN EN 1021-1 (Okt. 2014)  
With assessment according to DIN 66084

**Description / designation of the test object**

Material designated as: 10660 Infinity Plus

**Description of the relevant test procedure**

DIN EN 1021 – 1 (Okt. 2014)

DIN 66084






## 1. Description of the test material

### 1.1 Details of the customer:

Material designated as: 10660 Infinity Plus

Composition:

Basis: 100% PES, Flor 100% PAN

Infinity Plus	10600-325	402g/m <sup>2</sup>		
Infinity Plus	10600-999	402g/m <sup>22</sup>		
Infinity Plus	10600-991	402g/m <sup>2</sup>		

### 1.2 At the specimen preparation by Exova Warringtonfire, Frankfurt determined values:

Fabric sample

Colour:	black	red	white
Thickness:	ca. 2 mm	ca. 2 mm	ca. 2 mm
Square weight:	406 g/m <sup>2</sup>	399 g/m <sup>2</sup>	388 g/m <sup>2</sup>

Foam: Standard foam 22 kg/m<sup>3</sup>

Testing after clima storage at 23°C and 50% humidity.

## 2. Test results

### Testing of the burning behaviour according to DIN EN 1021-1 (ignition source: cigarette)

Colour: black

Specimen no.	1	2
<b>Smouldering criteria:</b>		
<b>Unsafe escalating combustion</b>	no	no
<b>Test assembly consumed</b>	no	no
<b>Smoulders to extremities</b>	no	no
<b>Smoulders through thickness</b>	no	no
<b>Smoulders more than an hour</b>	no	no
<b>More than 100mm from source</b>	no	no
<b>Flaming criteria:</b>		
<b>Unsafe escalating combustion</b>	no	no
<b>Test assembly consumed</b>	no	no
<b>Flames to extremities</b>	no	no
<b>Flames through thickness</b>	no	no
<b>Flames &gt; 120 seconds</b>	no	no

Enter "yes" if criteria exceeded or "no" if criteria not exceeded

**Remarks:** The cigarettes burn out after 17:00 (min.:sec.) and 16:50 (min.:sec.).

**Test result:** no ignition

## 2.1 Test results

### Testing of the burning behaviour according to DIN EN 1021-1 (ignition source: cigarette)

Colour: red

Specimen no.	1	2
<b>Smouldering criteria:</b>		
<b>Unsafe escalating combustion</b>	no	no
<b>Test assembly consumed</b>	no	no
<b>Smoulders to extremities</b>	no	no
<b>Smoulders through thickness</b>	no	no
<b>Smoulders more than an hour</b>	no	no
<b>More than 100mm from source</b>	no	no
<b>Flaming criteria:</b>		
<b>Unsafe escalating combustion</b>	no	no
<b>Test assembly consumed</b>	no	no
<b>Flames to extremities</b>	no	no
<b>Flames through thickness</b>	no	no
<b>Flames &gt; 120 seconds</b>	no	no

Enter "yes" if criteria exceeded or "no" if criteria not exceeded

**Remarks:** The cigarettes burn out after 16:55 (min.:sec.) and 17:00 (min.:sec.).

**Test result:** no ignition

## 2.2 Test results

### Testing of the burning behaviour according to DIN EN 1021-1 (ignition source: cigarette)

Colour: white

Specimen no.	1	2
<b>Smouldering criteria:</b>		
<b>Unsafe escalating combustion</b>	no	no
<b>Test assembly consumed</b>	no	no
<b>Smoulders to extremities</b>	no	no
<b>Smoulders through thickness</b>	no	no
<b>Smoulders more than an hour</b>	no	no
<b>More than 100mm from source</b>	no	no
<b>Flaming criteria:</b>		
<b>Unsafe escalating combustion</b>	no	no
<b>Test assembly consumed</b>	no	no
<b>Flames to extremities</b>	no	no
<b>Flames through thickness</b>	no	no
<b>Flames &gt; 120 seconds</b>	no	no

Enter "yes" if criteria exceeded or "no" if criteria not exceeded

**Remarks:** The cigarettes burn out after 17:20 (min.:sec.) and 16:55 (min.:sec.).

**Test result:** no ignition

### 3. Appearance of the specimen after the test



#### 4. Assessment

The material described in chapter one fulfils the requirements:

according to DIN EN 1021-1 (Okt. 2014): **no ignition**  
(ignition source: glowing cigarette)

The tested material passed the requirements to classes P-c according to DIN 66084

#### 5. Special comment

The fire test result is only valid for the described material in chapter one in the tested colours. According to the experiences of the test laboratory the test results also includes colors in between the tested ones.

In the composition with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable that the above classification is not any longer valid. The burning behaviour in composition with other materials has to be tested separately.

Frankfurt, the 18<sup>th</sup> January.2018



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Tester in charge



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