

Determination of the fire index of Roll Air ø50 / Roll Air ø63 / Roll Air ø75 / Roll Air ø90 / Roll Air ø110 / Roll Air ø125 / Roll Air ø160



Process Safety

TÜV SÜD Process Safety · Mattenstrasse 24 · CH-4002 Basel · Switzerland

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Mehr Wert.**

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Summary:

Fire Index:

(Derived result of the test)

4 . 2

The examination is accomplished in accordance with: Determination of the fire index (combustibility and smoke formation) according to the "Directives for the prescriptions on the fire police, materials and part of construction", Part B: Examination conditions, edition 1988 (with complements 1990, 1994, 1995 and 2005) of the "Vereinigung Kantonalen Feuerversicherungen" (VKF), Bundesgasse 20, Postfach 8576, CH-3001 Bern .

This test report has a validity period from 5 years.

The detailed test results are shown on the table of page 2.

Date: 17.05.2017

Our reference: PRS-/WI

Report No. 923512-17-0239-01

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2 Pages.
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Safety.

The test results refer exclusively
to the units under test..

Patrick Wieber
Head of Laboratory

Christian Kubainsky
Test and Head of Laboratory

The fire index describes the properties of the tested products at effects of heat and flame under controlled laboratory conditions. From this figure no inferences about the fire behavior of the products may be derived under the conditions of a real fire.

Conformity with the test specimen will not be verified by the testing institute.



egolf

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Process Safety

Test Object

Sample:	Roll Air ø50 / Roll Air ø63 / Roll Air ø75 / Roll Air ø90 / Roll Air ø110 / Roll Air ø125 / Roll Air ø160
Sample Description according to customer:	Square sheets of HDPE Color: white Use: double wall flexible pipe in polyethylene (PE) with smooth interior and corrugated exterior used for air circulation and ventilation in buildings MVHR (Mechanical Ventilation Heat Recovery) 30 pieces ca. 100 x 100 x 4,1 mm Measured density: 942±0 kg/m ³ Density (corrugated double wall pipe form): 200 kg/m ³ (approx.) Sample material was provided by the customer
Receiving Date:	11.05.2017

Applied Testing Procedure

SOP-No.: 241 (Determination of the combustibility degree)

SOP-No.: 242 (Determination of the smoke formation degree)

Test set-up

The tests were carried out in the laboratory for fire -, and explosion prevention of the TÜV SÜD Process Safety in Basel. The testing method is based on empirical bases. The quality of the testing method is supervised by periodic comparison attempts with other laboratories or with reference samples.

The sample was air-conditioned at room conditions till test day

Results and evaluation:

Basic test:

- Thickness: 4.1 mm

- Burning time (*in seconds*)

- attains the height of 150 mm?

Rupture of the cotton thread

- Flame spread in mm

Visual observation of the flame tip.

- melt up to a height of about (mm)

- flaming droplets?

- Filter paper aflame?

>50	>50	>50	-	-	-
No	No	No	-	-	-
~55	~55	~60	-	-	-
~35	~30	~30			
Yes	Yes	Yes	-	-	-
Yes	Yes	Yes	-	-	-

Fire behaviour: medium combustible.

Smoke test:

Smoke density test (on cup):

- Light absorption in %

- Mean value

86	86	87	-	-	-
86%			- %		

Smoke behaviour: medium smoke formation

End of experimental part: 15.05.2017