



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

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Testing Laboratory

Testing laboratory * Calibration laboratory * Product certification body * Quality management systems certification body
Inspection body * Authorized body * Notified body

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TEST REPORT

ref. No. 412210205

Client: POLYTEX, s.r.o.
ID: 46505601

Address: Úpická 120, 542 34 Malé Svatoňovice, Czech Republic

Sample: Flexoterm - identification see page 2

Sample received on: 2018 - 08 - 14

Report elaborated by: Ing. Šárka Běťáková

Place and date of issue: Zlín, 2018 - 08 - 29




Ing. Jiří Samsonek, Ph.D.
Head of Testing Laboratory

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
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Description and identification of sample205s:

Table No. I Sample description and identification

ITC's identification number	Sample identification by client	Description of submitted sample
412210205/01	Flexoterm	

Sampling method used:

The sample was supplied to the laboratory by the client. The laboratory is not responsible for mistakes caused by the wrong way of sampling.

Work requested:

Determination of burning behaviour.

Testing method used:

Determination of burning behaviour according to standard DIN 4102-1, Part 1 (1998), Subclause 6.2 (construction materials of B2 class).

Conditioning:

Temperature (23±2)°C, time 96 hours, relative humidity (50±10)%.

Test conditions:

Temperature (23±2)°C, test piece position - vertical, heating medium - propane, flame height 20 mm, burner position 45°, flame application time 15 s.

Test pieces:

- a) flame application to edges (190 x 90 x 9) mm, number of test pieces 10
- b) flame application to surface area (230 x 90 x 9) mm, number of test pieces 10
- c) parts falling off – identical with a) and b), number 20

Conditions exposure a) surface exposure

b) edge exposure

c) falling away parts

Detector - filter paper

Evaluation criterion:

- a) time taken to reach the test (gauge) mark at the distance of 150 mm from the lower edge of the test piece (flame application to the test piece edge)
- b) time needed to reach the test (gauge) mark at the distance of 150 mm from the lower mark distant 40 mm from the lower edge of the test piece (flame application to the test piece surface area)
- c) ignition of the filter paper under the sample (ignition of the indicator – see Tables).

Further information required by the standard/standards and not given in this Test Report are available at a request at the Laboratory.

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**Test results:**

The test results are given in the following tables :

a) exposure of the test specimens edge

Table II

Flexoterm, registration No. 412210205/01
direction longitudinal

Characteristic measured	Unit	Measurements obtained				
		Test pieces no.				
		1	2	3	4	5
Ignition of the sample YES/NO	-	YES	YES	YES	YES	YES
Reaching of the mark 150 mm YES/NO	-	NO	NO	NO	NO	NO
Time taken to burn the distance of 150 mm	s	-	-	-	-	-
Ignition of the filter paper YES/NO	-	NO	NO	NO	NO	NO

Observations during the test: The test specimen was burning with a bright orange flame, which almost immediately - as early as in the course of ignition (approximately within 2 seconds) - extinguished...the test specimens extinguished prior to reaching the gauge mark. Subsequently, the test specimen melted due to heat generated under the effect of the flame. During the test, no burning melt was dripping off; consequently, the filter paper placed below the test specimen did not ignite. The test specimen was damaged (the melted away part of the test specimen) after the test.

Table III

Flexoterm, registration No. 412210205/01
direction transverse

Characteristic measured	Unit	Measurements obtained				
		Test pieces no.				
		1	2	3	4	5
Ignition of the sample YES/NO	-	YES	YES	YES	YES	YES
Reaching of the mark 150 mm YES/NO	-	NO	NO	NO	NO	NO
Time taken to burn the distance of 150 mm	s	-	-	-	-	-
Ignition of the filter paper YES/NO	-	NO	NO	NO	NO	NO

Observations during the test: The test specimen was burning with a bright orange flame, which almost immediately - as early as in the course of ignition (approximately within 2 seconds) - extinguished...the test specimens extinguished prior to reaching the gauge mark. Subsequently, the test specimen melted due to heat generated under the effect of the flame. During the test, no burning melt was dripping off; consequently, the filter paper placed below the test specimen did not ignite. The test specimen was damaged (the melted away part of the test specimen) after the test.

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**b) exposure of the test specimens surface**

Table IV

Flexoterm, registration No. 412210205/01

direction longitudinal

Characteristic measured	Unit	Measurements obtained				
		Test pieces no.				
		1	2	3	4	5
Ignition of the sample YES/NO	-	YES	YES	YES	YES	YES
Reaching of the mark 150 mm YES/NO	-	NO	NO	NO	NO	NO
Time taken to burn the distance of 150 mm	s	-	-	-	-	-
Ignition of the filter paper YES/NO	-	NO	NO	NO	NO	NO

Observations during the test: The test specimen was burning with a bright orange flame, which almost immediately - as early as in the course of ignition (approximately within 2 seconds) - extinguished...the test specimens extinguished prior to reaching the gauge mark. Subsequently, the test specimen melted due to heat generated under the effect of the flame. During the test, no burning melt was dripping off; consequently, the filter paper placed below the test specimen did not ignite. The test specimen was damaged (the melted away part of the test specimen) after the test.

Table V

Flexoterm, registration No. 412210205/01

direction transverse

Characteristic measured	Unit	Measurements obtained				
		Test pieces no.				
		1	2	3	4	5
Ignition of the sample YES/NO	-	YES	YES	YES	YES	YES
Reaching of the mark 150 mm YES/NO	-	NO	NO	NO	NO	NO
Time taken to burn the distance of 150 mm	s	-	-	-	-	-
Ignition of the filter paper YES/NO	-	NO	NO	NO	NO	NO

Observations during the test: The test specimen was burning with a bright orange flame, which almost immediately - as early as in the course of ignition (approximately within 2 seconds) - extinguished...the test specimens extinguished prior to reaching the gauge mark. Subsequently, the test specimen melted due to heat generated under the effect of the flame. During the test, no burning melt was dripping off; consequently, the filter paper placed below the test specimen did not ignite. The test specimen was damaged (the melted away part of the test specimen) after the test.

Interpretations:

Flexoterm, registration No. 412210205/01 meets requirements for inclusion into **class B2 according to DIN 4102-1 standard** (the time taken to burn the distance of 150 mm is longer than 20 seconds - the test specimens were burning with a bright orange flame but the test specimens extinguished prior to reaching the gauge mark).

Interpretations and comment on the results of the tests carried out:

Dipl. Ing. Š. Běťáková

M.Sc. Roman Dlabaja, Ph.D.

Head of Laboratory of Physics

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