# THE STANDARDS INSTITUTION OF ISRAEL



## Building Materials Laboratory

### Test Report No. 2911208497

#### Details of order

The test was ordered by

: Bitum (1991) Ltd.

Address

: 4 HaYitzira St., Kiryat Hayim 26290, ISRAEL

Date of order.

: 30/08/99

The sample was selected by a representative of :The customer

The sample was received at SII on : 30/08/99

### Description of sample

Sample of black sealing sheets, approximately 1.0 x 1.0 m, designated "FLEXIGUM", a product of: Bitum Ltd.

#### Nature of test

Determination of properties in accordance with a test program of Bitum Ltd.

This report contains 3 pages and may be used only in full.

The test report refers to the test sample only and does not apply to other specimens of the same product.

#### General

The test program and test results are given on pages 2 and 3.

Name : Zohar Pelsik

Position: Head, Sealing and Coating

Material's Section

Name

: Eng. Liezet Zafira

Position: Head Finishing Materials Branch

07/12/99

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### A. Test program

- Thickness measurements dry (in accordance with the method marked in SI 1430/3).
- 2. \* Maximum tensile strength (in accordance with the method marked in ASTM D-412).
- \* Maximum elongation (in accordance with the method marked in ASTM D-412).
- 4. \* Maximum tensile strength following heat weathering in an oven at 168 hours at 70 °C (in accordance with the method marked in ASTM D-412).
- 5. \* Maximum elongation following heat weathering in an oven at 168 hours at 70 °C (in accordance with the method marked in ASTM D-412).
- \* Maximum tensile strength following U.V. weathering for 2000 hours (in accordance with the method marked in ASTM D-412).
- \* Maximum elongation following U.V. weathering for 2000 hours (in accordance with the method marked in ASTM D-412).
- \* Maximum tensile strength following immersion in water for 168 hours at a temperature of 50 °C.
- \* Maximum elongation following immersion in water for 168 hours at a temperature of 50 °C.
- Elevated temperature resistance at 100 °C (in accordance with the method marked in SI 1430/3).
- Low temperature flexibility at -15 °C (in accordance with the method marked in SI 1430/3).
- Change in weight following immersion in water for 168 hours at a temperature of 50 °C.
- Loss of volume following immersion in water for 168 hours at a temperature of 50 °C.
- Resistance to a water pressure of 1 atm. during 24 hours (in accordance with the method marked in DIN 52123).
- Dimensions of the sample tested: 50 mm long; 10 mm width, the distance between the measurement points - 25 mm.

#### B. Test description

The tests were performed on a sheet 4.0 - 5.5 mm thick prepared by the customer representative and conditioned in the laboratory for 14 days prior to the beginning of the tests.

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## Test results

No.	Property tested	Test method	Units	Test results
1	Thickness measurements (dry)	In accordance with the method marked in SI 1430/3	mm	4.0 - 5.5
2	Tensile strength in air (max.)	In accordance with the method marked in ASTM D-412	MPa	Single: 0.22 - 0.26 Average: 0.23
3	Elongation in air (max.)	In accordance with the method marked in ASTM D-412	%	Single: 1865 - 1927 Average: 1897
4	Tensile strength following heat weathering in an oven for 168 hours at 70 °C	In accordance with the method marked in ASTM D-412	MPa	Single: 0.22 - 0.31 Average: 0.28
5	Elongation following heat weathering in an oven for 168 hours at 70 °C	In accordance with the method marked in ASTM D-412	%	Single: 1895 - 1911 Average: 1907
6	Tensile strength following U.V. weathering for 2000 hours (max.)	In accordance with the method marked in ASTM D-412	MPa	Single: 0.16 - 0.19 Average: 0.17
7	Elongation following U.V. weathering for 2000 hours (max.)	In accordance with the method marked in ASTM D-412	%	Single: 1884 - 1919 Average: 1903
8	Tensile strength following immersion in water for 168 hours at 50 °C	In accordance with the method marked in ASTM D-412	MPa	Single: 0.19 - 0.23 Average: 0.21
9	Elongation following in water for 168 hours at 50 °C	In accordance with the method marked in ASTM D-412	%	Single: 1903 - 1915 Average: 1908
10	Elevated temperature resistance at 100 °C	In accordance with the method marked in SI 1430/3	100 °C	No signs of leakage or dripping were observed.
11	Low temperature flexibility at -15 °C	In accordance with the method marked in SI 1430/3	-15 °C	The specimen did not crack.
12	Change in weight following immersion in water for 168 hours at a temperature of 50 °C	_	%	Average: +5.6
13	Loss of volume following immersion in water for 168 hours at a temperature of 50 °C	_	%	Average: +4.9
14	Resistance to a water pressure of 1 atm. during 24 hours with a screen		atm.	Water did not pass through the specimens.

Tel-Aviv: 1421020