



Test Report No. 8511200537/1

Details of order

The test was ordered by	: Pazkar Ltd.
Address	: Industrial area Alon Tavor, Afula 18120, ISRAEL
Date of order.	: 04/01/05

Description of sample

Sample of a bitumen (sheet) sealing material, called RAPID FLEX by the customer.
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Sampling details

The sample was taken on 04/01/05 and selected by the customer. Sample size: 1 sealing material (sheet).
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Nature of test

To determine properties in accordance with the test program of Pazkar Ltd.
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This report contains 3 pages and may be used only in full.
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The test results in this document refer only to the item tested.
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Test results

General: The test program and the test results are given on pages 2 - 3.
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Position : Head, Sealing and Coating Materials Section

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Position : Head, Structures and Sealing Materials Branch

3.3.05

Test Report No. 8511200537/1

Page 2 of 3 pages

Test program

1. Thickness measurements (dry material) in accordance with the method given in SI 1430/3.
2. Tensile strength (in accordance with the method given in ASTM D 412) (specimen dimensions: 50 mm long, 6.5 mm wide, gauge length - 25 mm).
3. Elongation (in accordance with the method given in Clause 2).
4. Tensile strength following heat exposure for 168 hours at a temperature of 70 °C (in accordance with the method given in Clause 2).
5. Elongation following heat exposure for 168 hours at a temperature of 70 °C (in accordance with the method given in Clause 2).
6. Tensile strength following immersion in water at a temperature of 70 °C for 168 hours (in accordance with the method given in Clause 2).
7. Elongation following immersion in water at a temperature of 70 °C for 168 hours (in accordance with the method given in Clause 2).
8. Cold flexibility at a temperature of -20 °C in accordance with the method given in SI 1430/3 (DIN 52123).
9. Recovery following elongation of 900% (elongation of 900% of a specimen of dimensions: 50 mm long, 10 mm wide and gauge length of 25 mm). The measurements were made 60 minutes after releasing the specimen.
10. Resistance to an elevated temperature of 100 °C (in accordance with the method given in ASTM D 2939-98 on a substrate only).
11. Water penetration under pressure (in accordance with the method given in DIN 52123) 1.0 atm for 24 hours.
12. General water absorption: after immersion in water at a temperature of 70 °C for 168 hours.
13. Crack bridging (in accordance with the method given in SI 1731) layer thickness of bitumen material: 2.8 mm.

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Test Report No. 8511200537/1

Page 3 of 3 pages

Test results

No.	Property tested	Test method	Units	Test results
1	Thickness dimensions, dry (mm)	In accordance with the method given in SI 1430/3	mm	3.0 - 3.3
2	Tensile strength (max.)	In accordance with the method given in ASTM D 412	MPa	Single: 0.07 - 0.09 Average: 0.08
3	Elongation (max.)	In accordance with the method given in ASTM D 412	%	Single: 1326 - 1485 Average: 1397
4	Tensile strength (max.) (after heat exposure)	In accordance with the method given in ASTM D 412	MPa	Single: 0.19 - 0.25 Average: 0.23
5	Elongation (max.) (after heat exposure)	In accordance with the method given in ASTM D 412	%	Single: 1753 - 1760 Average: 1758
6	Tensile strength (max.) (after water immersion)	In accordance with the method given in ASTM D 412	MPa	Single: 0.13 - 0.15 Average: 0.14
7	Elongation (max.) (after water immersion)	In accordance with the method given in ASTM D 412	%	Single: 1744 - 1762 Average: 1755
8	Flexibility at low temperature -20 °C	In accordance with the method given in SI 1430/3 (DIN 52123)	°C	No cracks were observed
9	Recovery after elongation of 900%	- Initial length: 25 mm - Measured 60 minutes after releasing the specimen	%	87.5
10	Elevated temperature resistance at 100 °C	In accordance with the method given in ASTM D 2939-98	°C	No signs of leakage or dripping were observed.
11	Water penetration under pressure	In accordance with the method given in SI 1536	atm.	atm during 24 hours No penetration of water
12	General absorption	In accordance with the method given in SI 1536	%	4.6
13	Crack bridging	In accordance with the method given in SI 1731	mm	Average: 180

 Invoice: 2201667
 Tel-Aviv: 3.3.05

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