

TEST REPORT

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SAMPLE FOR TESTING	Material: Sprayed cork Client identification: SPRAYED CORK DECOPROYEC Date received: 10/29/2013 Warehouse number: 74362
TESTS	Tensile strength and elongation at break according to 527-4

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1. DETERMINATION OF THE TENSILE PROPERTIES ACCORDING TO UNE-EN ISO 527-4

This test studied the tensile behavior of the samples when subjected to stretching at a constant rate of 2 mm/min until rupture. The force and elongation were continuously recorded throughout the test.

The equipment used was a materials resistance press, Instron brand model 5581, equipped with a type of grips that maintain or increase the pressure on the sample as the applied force increases

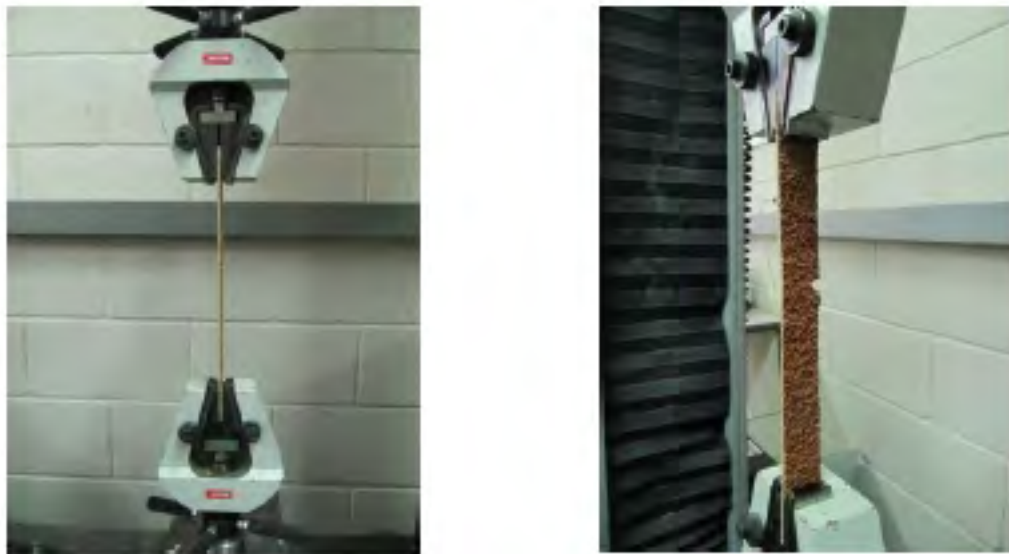


Figure 1. Images taken during the test

In the following Figure 2, you can see an example of the data obtained continuously during the test for sample 1.

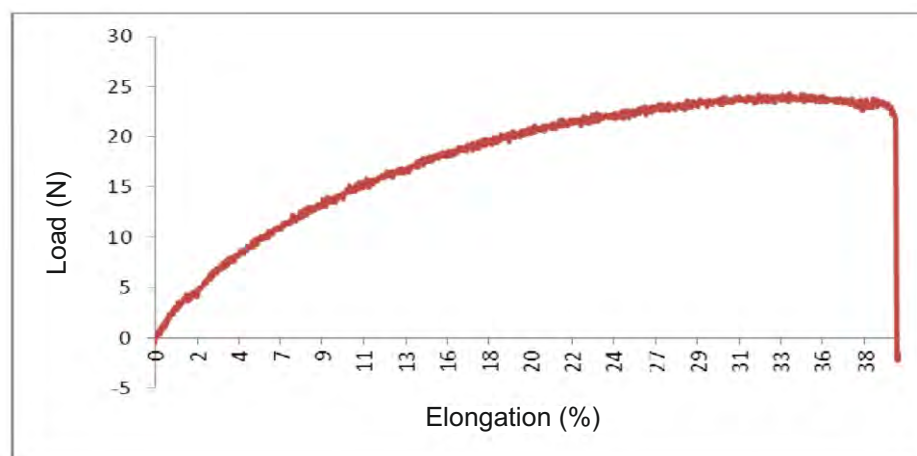


Figure 2. Graph of the applied load vs. elongation in continuity for sample 1

A set of 9 test pieces was tested, and the method of measuring the elongation of the test pieces was by separation of the jaws.

Table 1. Results of the tensile test

Specimen	Load (N)	Area (mm ²)	Tensile Stress (Mpa)	Elongation (%)
1	24,30	95,87	0,25	33,58
2	29,88	94,54	0,32	30,61
3	22,88	93,39	0,24	31,22
4	21,70	93,89	0,23	37,45
5	24,12	92,21	0,26	45,56
6	24,01	91,83	0,26	39,22
7	22,56	89,91	0,25	30,18
8	27,42	86,64	0,32	34,11
9	21,98	89,08	0,25	28,98
AVERAGE	24,32		0,26	34,55
STD DEV	2,70		0,03	5,35

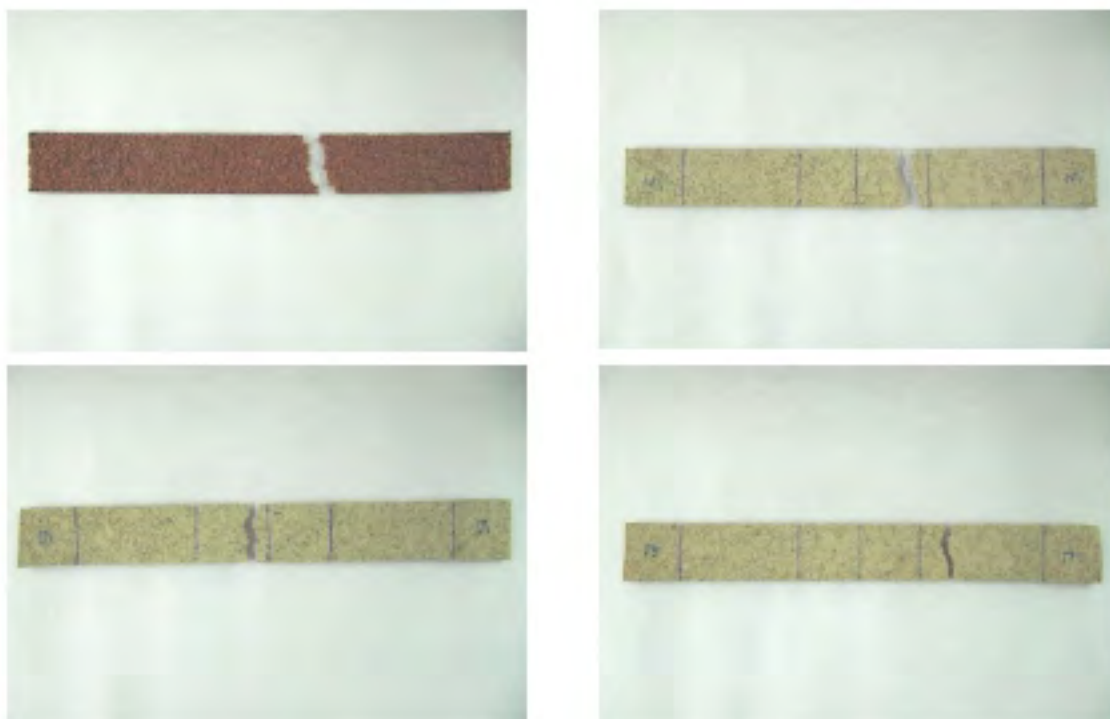


Figure 3. Images of the test specimens after the test.