

## 1.3 TEST RESULTED OF TRACTION

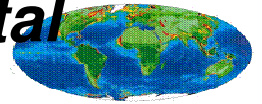
The value selected and indicated in the table is the one that is from the first breakage of the sample, since; it has been observed that after the first breakage, frequently, a partial increase of the tension due to the resistance of some fibers takes place, that they are extended remarkably but without arriving at the breakage. In this case, perhaps by an irregular impregnating of the resin, some particularly resistant layers are become deformed plastic thus allowing, a greater extension of the sample.

Table. 5.2: test resulted of traction.

SAMPLE	LOAD [N]	DEFORMATION [?m]
<b>A1</b>	<b>8250</b>	<b>593</b>
<b>A2</b>	<b>7606</b>	<b>473</b>
<b>A3</b>	<b>9268</b>	<b>2463</b>
<b>A4</b>	<b>6895</b>	<b>1512</b>
<b>A5</b>	<b>5357</b>	<b>743</b>
<b>B1</b>	<b>8986</b>	<b>9028</b>
<b>B2</b>	<b>2981</b>	<b>8302</b>
<b>B3</b>	<b>5348</b>	<b>9750</b>
<b>B4</b>	<b>7649</b>	<b>14432</b>
<b>B5</b>	<b>6137</b>	<b>16715</b>
<b>C1</b>	<b>9129</b>	<b>4883</b>
<b>C2</b>	<b>10621</b>	<b>8409</b>
<b>C3</b>	<b>8860</b>	<b>1500</b>
<b>C4</b>	<b>12428</b>	<b>6733</b>
<b>C5</b>	<b>11992</b>	<b>4119</b>
<b>D1</b>	<b>9129</b>	<b>7505</b>
<b>D2</b>	<b>7793</b>	<b>7489</b>
<b>D3</b>	<b>7790</b>	<b>8283</b>
<b>D4</b>	<b>7250</b>	<b>7300</b>
<b>D5</b>	<b>7800</b>	<b>8299</b>
<b>E1</b>	<b>4307</b>	<b>6898</b>
<b>E2</b>	<b>5574</b>	<b>8866</b>
<b>E3</b>	<b>8625</b>	<b>11004</b>
<b>E4</b>	<b>4355</b>	<b>5319</b>
<b>E5</b>	<b>9808</b>	<b>11399</b>
<b>F1</b>	<b>4322</b>	<b>5990</b>
<b>F2</b>	<b>5780</b>	<b>7480</b>
<b>F3</b>	<b>9890</b>	<b>10050</b>
<b>F4</b>	<b>12365</b>	<b>12478</b>
<b>F5</b>	<b>4709</b>	<b>6306</b>
<b>G1</b>	<b>6448</b>	<b>8459</b>
<b>G2</b>	<b>10474</b>	<b>9871</b>

# Asepro Consulting Medioambiental

[acm@aseproconsulting.com](mailto:acm@aseproconsulting.com)  
[www.aseproconsulting.com](http://www.aseproconsulting.com)



<b>G3</b>	<b>5723</b>	<b>12902</b>
<b>G4</b>	<b>8558</b>	<b>15876</b>
<b>G5</b>	<b>13141</b>	<b>11565</b>
<b>H1</b>	<b>5365</b>	<b>6535</b>
<b>H2</b>	<b>4893</b>	<b>8874</b>
<b>H3</b>	<b>7678</b>	<b>11224</b>
<b>H4</b>	<b>8017</b>	<b>10362</b>
<b>H5</b>	<b>10670</b>	<b>16755</b>

The qualified instrument to test visualizes in the screen and by means of specific software, the curve of the deformation based on the load, obtaining therefore the necessary values for the calculation of the maximum force in the breakage point.

The data relative to the tests are Memorized in a disc and studied successively

In figures 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10 are the graphs relative to the curve of the deformation, produced in each one of the forty samples that have been put under traction.

It is possible to verify like inside the groups To, B, G and H there exist curves of deformation that change very much between(among) a sample and other one, overcoat in all that it(he, she) refers to the maximum reached stretching. Nevertheless, the samples belonging to the groups And, F, G, H differ mainly between(among) them for the different values of the maximum load.

The groups of test(proof) that they have provided a major uniformity in the results, be for the load as(like) for the stretching, they are C and D.

.ASEPRO CENTRO  
Paseo de la Castellana 11  
28046 MADRID  
TELF: +34 915 900 818  
FAX: +34 917 710 722

ASEPRO ANDALUCIA  
Residencial Diana Casa 39  
29680 ESTEPONA MALAGA  
TELT:+34 952 884 339  
FAX: +34917 710 722

ASEPRO LEVANTE  
Conde de Altea 16-1º D  
03590 ALTEA ALICANTE  
TELF: +34 965 842 475  
FAX: +34 917 710 722

Antonio Carrasco Mariscal. Móvil: 651 06 38 14

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