

## **PAB Materials Test System**

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| <b>Date of Receipt</b>                  | 6/18/2015 eLog entry # 5105                                    |
| <b>Sample Name/Description</b>          | piece of carbon fiber hollow box<br>cross section beam         |
| <b>Sample</b>                           |  |
| <b>Composition:</b>                     | carbon fiber   |
| <b>Picture Location:</b>                | data base  |
| <b>Weight:</b>                          | 85.5 g   |
| <b>Dimensions/Area:</b>                 | 75 mm x 75 mm/wall 3 mm, length 60 mm                          |
| <b>Source:</b>                          | Trevor Gamble, University of Sheffield,UK                      |
| <b>Preparation:</b>                     | cleaned with alcohol   |
| <b>Submerging in LAr or LH2</b>         | x  |
| <b>Time in the airlock(hrs)</b>         |  |
| <b>Purge:</b>                           | x  |
| <b>Vacuum:</b>                          | 25 hours   |
| <b>Liquid Test</b>                      |  |
| <b>Start Time/Date, End Time/Date :</b> | 5/21/2015 5:52 PM, 6/3/2015 2:20 PM                            |
| <b>PrM run # :</b>                      | 24247  |
| <b>Condenser state:</b>                 | on   |
| <b>Filter state:</b>                    | off  |
| <b>H2O reading:</b>                     | no water reading   |
| <b>Liquid level:</b>                    | 25 inches  |
| <b>Temperature:</b>                     | 95 K   |
| <b>Lifetime:</b>                        | slowly decreased from 7-10 ms to 3-5 ms.                       |
| <b>Zero Test</b>                        |  |
| <b>Start Time/Date, End Time/Date :</b> | 6/10/2015, 6/18/2015   |
| <b>PrM run # :</b>                      | 24444  |
| <b>Condenser state:</b>                 | on   |
| <b>Filter state/settings:</b>           | off  |
| <b>H2O reading:</b>                     | increased to 6 ppb   |
| <b>Temperature:</b>                     | 95 K   |
| <b>Lifetime:</b>                        | slowly decreased, stayed in 3-5 ms range for the last few days |
| <b>Results/comments</b>                 | no difference in results for sample in cage / empty cage tests |
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