

## **PAB Materials Test System**

<b>Date of Receipt</b>	3/3/2010, logbook entry #1198
<b>Sample Name/Description</b>	3M connectors(10 Boardmount Header 81020-550203 and 9 Wiremount Socket 82020-6006)
<b>Sample</b>	
<b>Composition:</b>	Boardmount - High Temp. Plastic(LCP), Wiremount - Glass Filled Polyester(PBT)
<b>Picture Location:</b>	Data Base
<b>Weight:</b>	48.5 g (10 boardmount -26.7 g , 9 wiremount -21.8 g )
<b>Dimensions/Area:</b>	1 boardmount apx. 27.2 x 10.5 x 7.8 mm, wiremount 19 x 9.6 x 6 mm
<b>Source:</b>	Walter Jaskierny, Hans Jostlein
<b>Preparation:</b>	cleaned with alkohol
<b>Submerging in LAr or LH2</b>	no
<b>Zero Test</b>	1/29/10 - 2/1/10
<b>Lifetime:</b>	from 10 ms to 3.1 ms
<b>Time in the airlock(hrs)</b>	46 h
<b>Purge:</b>	2/1/10 10:10 am, 2/3/10 8:40 am
<b>Vacuum:</b>	
<b>Room Temperature</b>	
<b>Start Time/Date, End Time/Date :</b>	2/3/10 8:42 am, 2/8/10 8:55 am
<b>PrM run # :</b>	7305-7371
<b>Condenser state:</b>	on
<b>Filter state:</b>	off
<b>O2 reading:</b>	increased by 0.5 ppb
<b>H2O reading:</b>	12.3 ppb HALO , 2.8 ppb LaserTrace
<b>Lifetime:</b>	10 ms to 2.7 ms
<b>Liquid Test</b>	
<b>Start Time/Date, End Time/Date :</b>	2/9/10 9:10 am, 2/10/10 3:45 pm
<b>PrM run # :</b>	7384-7427
<b>Condenser state:</b>	on
<b>Filter state:</b>	off
<b>O2 reading:</b>	increased by 0.3-0.1 ppb
<b>H2O reading:</b>	increased to 11 ppb, stabilized at 5-6 ppb
<b>Temperature:</b>	95.4 K
<b>Lifetime:</b>	from 10 ms to 4.9 ms, stabilized at 6-7 ms
<b>Liquid level :</b>	22" to 21"
<b>Vapor Test</b>	
<b>Start Time/Date, End Time/Date :</b>	2/11/10 9:10 am, 2/16/10 9:10 am
<b>PrM run # :</b>	7437-7546
<b>Condenser state:</b>	on
<b>Filter state/settings:</b>	off
<b>O2 reading:</b>	increased by 0.85 ppb initially, then started to go down.
<b>H2O reading:</b>	stabilized at 3.5-5 ppb
<b>Temperature:</b>	220-225 K
<b>Lifetime:</b>	stabilized at 6-7 ms
<b>Zero Test</b>	2/19/10 - 2/22/10
<b>Lifetime:</b>	from 9.5 ms to 0.6 ms(apparatus problem, unexpected water increase)
<b>Results/comments</b>	Test shows that 3M connectors don't have a big effect on the purity of the liquid Ar.