

PAB Materials Test System

Date of Receipt	Nov.09
Sample Name/Description	962 Feedthrough Board V2 with 4 connectors
Sample	
Composition:	board :FR4 , connectors: glass filled nylon
Picture Location:	data base
Density:	x
Weight:	63.7g (board with 4 connectors)
Dimensions/Area:	board: 8cm x 9.3cm, connector: 7.6cm x 1cm x 0.7cm
Source:	Walter Jaskierny
Preparation:	cleaned with alcohol
Submerging in LAr or LH2	no
Time in the airlock(hrs)	app. 24 hours
Purge:	
Vacuum:	10/12/2009, app. 23.5h
Vapor Test 1	
Start Time/Date, End Time/Date :	10/13/09 2:30pm, 10/14/09 1:15pm
PrM run # :	6194
Condenser state:	on
Filter state:	on, heater time 1min, valve open 1min
O2 reading:	x
H2O reading:	4ppb to 16ppb
Temperature:	x
Lifetime:	8ms to 3.2ms
Room Temperature Test 1	Airlock purged with Luke vapor for 10min before gate valve open
Start Time/Date, End Time/Date :	10/14/09 3:15pm, 10/15/09 9:25pm
PrM run # :	6209
Condenser state:	on
Filter state:	on
O2 reading:	x
H2O reading:	16ppb to 85ppb
Temperature:	room
Lifetime:	4ms to 2ms
Room Temperature Test 2	Sample baked for 24hours at 80-100F, airlock evacuated for 0.5hour to 10E-6 Torr
Start Time/Date, End Time/Date :	10/16/09 10:30am , 10/21/09
PrM run # :	6228
Condenser state:	on
Filter state/settings:	off 10/16/09 to 10/19/09, on 10/19/09 to 10/22/09
H2O reading:	5ppb to 45ppb then stabilized at 25ppb
Temperature:	room
Lifetime:	8.5 ms to 5.3ms in 5h. to 1ms in 70hours
Zero Test - room temperature	airlock evacuated to 9E-6 Torr
Start Time/Date, End Time/Date :	10/22/2009, 10/26/09
PrM run # :	6290
Condenser state:	on
Filter state/settings:	off
H2O reading:	5ppb to 18ppb
Lifetime:	7 ms to 1.3ms in 80hours
Results & Comments	lifetime dropped to 12-30% due to big amount of water released. connectors and board need to be tested separately