

<b>PAB Materials Test System</b>	
<b>Date of Receipt</b>	8/24/2009
<b>Sample Name/Description</b>	Vespel (lightweight plastic)
<b>Sample</b>	
<b>Composition:</b>	polyimide based plastic
<b>Picture Location:</b>	
<b>Density:</b>	1.43 g/cm3 (LAr 1.39g/cm3)
<b>Weight:</b>	281.3g
<b>Dimensions/Area:</b>	5.5cm x 10cm x 4cm
<b>Source:</b>	Terry Tope
<b>Preparation:</b>	cleaned with ethyl alcohol
<b>Zero Test</b>	x
<b>Submerging in LAr or LH2</b>	x
<b>Time in the airlock(hrs)</b>	app. 24hrs
<b>Purge:</b>	
<b>Vacuum:</b>	7/9/09 overnight
<b>Vapor Test 1</b>	
<b>Start Time/Date, End Time/Date :</b>	7/14/09 8:45am, 7/16/09 9:00am
<b>PrM run # :</b>	5482
<b>Condenser state:</b>	On
<b>Filter state:</b>	On
<b>O2 reading:</b>	0.001ppb
<b>H2O reading:</b>	6.69ppb
<b>Temperature:</b>	226K
<b>Lifetime:</b>	5.6ms before test, 4.3ms 7 hrs after, 6.2ms 23 hrs after
<b>Vapor Test 2</b>	x
<b>Start Time/Date, End Time/Date :</b>	
<b>PrM run # :</b>	
<b>Condenser state:</b>	
<b>Filter state:</b>	
<b>O2 reading:</b>	
<b>H2O reading:</b>	
<b>Temperature:</b>	
<b>Lifetime:</b>	
<b>Liquid Test</b>	
<b>Start Time/Date, End Time/Date :</b>	7/10/09 11:20am, 7/14/09 8:45am
<b>PrM run # :</b>	5429
<b>Condenser state:</b>	On
<b>Filter state/settings:</b>	On
<b>O2 reading:</b>	0.00ppm
<b>H2O reading:</b>	5.37ppb
<b>Temperature:</b>	94K
<b>Lifetime:</b>	4.8ms before test, 2.2ms after submerged in Lar, 4.9ms 36 hrs after
<b>Liquid level :</b>	18.09 inches
<b>Results &amp; Comments</b>	Vespel can be used in low temperatures. Historical Data plot is in elog 7/10/2009