Pugh Diagram_1029.xls

	A	B	C	D	E	F	G
1	Revision #:	B (10/29/08)					
2	Customer Need #	Importance	Description	Membrane Indenter	Biaxial	Hemispherical Biaxial	Volumetric
3	CN2	High	Setup correlation for Test Data - Once load/displacement data is collected, a known correlation to apply data set to is necessary to be able to apply the information to ANSYS	0	+	0	-
4	CN3	High	Membrane test data - Able to collect enough relavant load/displacement data that can be used later in a stress/strain correlation	0	+	+	0
5	CN5	High	Minimize noise in measurement data - Sensitive measurement devices are important due to small load/displacements, including video analysis (high speed camera)	0	0	0	0
6	CN6	High	Edge Effects Eliminated - Edge effects need to be physically eliminated or some alternative proven approach must be used to avoid them	0	0	0	0
7	CN7	High	New design including CAD drawings and BOM	0	0	0	0
8	CN8	High	Easy repair - Along with life cycle, if one part does go down, the repairing of that part or replacement of that part should cause minimal down time	0	0	-	-
9	CN10	Medium	Low cost - cost includes all load cells, pressure sensors, motors, motor controllers and mechanical parts.	0	0	-	-
10	CN11	Medium	Efficient - includes run time and making/mounting membrane to machine. Runtime includes the time each individual test takes, as a whole	0	+	-	-
11	CN12	Medium	Easy operation - Goes along with efficiency, should be easy to set up and run	0	+	-	-
12	CN13	Medium	User friendly Labview interface - Customer needs to be able to have an easy GUI to use when operating test stand	0	0	0	0
13	CN14	Low	Easy transportation - Test stand might need transportation to an air table to minimize vibrations causing noise in the sample data.	0	0	-	-
14	CN16	Low	Long life cycle - Replacement of parts should be minimal	0	0	-	-
15							
16			Totals	0	10	-7	-14
17							

Sheet1 Sheet2 Sheet3

Ready Sum=0 SCRL CAPS NUM