



MTEC Mechanical Testing Services
 8676 Taub Rd. | Houston, Texas 77064
 281-469-2609

WRAITH™ Raw Material
 Third Party Test: **Compound B**

ISO 9001-2008
 ISO/IEC 17025:2005
 ACCREDITED
LAB# W15012916
 Certified
09-23-2015 15:08

Customer:
Phenom Innovations, LLC
221 W Airtex Blvd, Stes 105-110
Houston, TX 77090

PO NO PO-0001-Test
 PART NO Compound B
 QTC 12" long x 2.45 Dia
 MATL Type Aluminum Base
 SPEC Customer Supplied



TEST DATA

TENSILE

UTS PSI	YS.2% PSI	% EL	% RA	BAR DIA	ORIEN	LOC
29869	14603	9.25	13.46	0.5020"	Long	MR

COMPRESSION

YS.2% PSI	BAR DIA	ORIEN	LOC	LENGTH
15207	0.4970"	Long	MR	1.5"

WEIGHT LOSS

160 Degrees Fahrenheit for 8 hours. Weigh sample at beginning of test and at 1, 2, 3, 4, 6, and 8 hours.
 Specimen Dimensions: L = 60.76mm, W = 27.68mm, T = 10.39mm
 Initial Weight = 46.539g

Hours Weight (g)

(1) 46.489 (2) 46.236
 (3) 45.683 (4) 44.904
 (6) 42.804 (8) 40.949

***** SEE ATTACHED REPORT *****

Billy Brown **Billy Brown, GENERAL MANAGER**

The recording of false, fictitious, or fraudulent statements or entries on this document may be punishable as a felony under federal statute.
 MTEC is accredited to ISO/IEC 17025:2005 for testing by PJA. Accreditation No 70049. Uncertainty information, pertinent to ISO 17025 Accredited Results, is available upon request.



RESULTS

Elapsed Time	Length (mm)	Width (mm)	Thickness (mm)	Weight (g)	Temperature (°F)	Mass Loss (g)	Mass Loss/mm ²
0 Hour (start)	60.76	27.68	10.39	46.539	160	0	0
1 Hour	—	—	—	46.489	160	0.05	9.61269E-06
2 Hours	—	—	—	46.236	160	0.303	5.82529E-05
3 Hours	—	—	—	45.683	160	0.856	0.000164569
4 Hours	—	—	—	44.904	160	1.635	0.000314335
6 Hours	—	—	—	42.804	160	3.735	0.000718068
8 Hours	—	—	—	40.949	160	5.59	0.001074699

Surface Area (Start): **5201.4568 mm²**

TEST PROCEDURE Actual test procedure for dissolve rates is unknown. Here is the test method we will use:

- Will cut samples from supplied material without the use of coolant.
This will be done at a band speed < 50 ipm to prevent overheating.
- Sample dimensions will be measured.
- Sample will be weighed in grams.
- Sample will then be immersed in **distilled water** at stated test temperature.
- Sample will be removed at the following elapsed times to measure the weight and recorded at: **1, 2, 3, 4, 6, and 8 Hours.**
If these do not produce a satisfactory curve, then customer will be contacted for further instructions.
- After 8 hours the sample will be rinsed in methanol and dried.
- Data will be graphed out on an excel spread sheet for each Compound and emailed to the customer.

MASS LOSS / mm²

