



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

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

ISO 9001-2008
 ISO/IEC 17025:2005
 ACCREDITED
LAB# W15012915
 Certified
09-23-2015 14:52

Customer:

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

PO NO PO-0001-Test
 PART NO Compound A
 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
27918	15973	5.90	14.38	0.5020"	Long	MR

COMPRESSION

YS.2% PSI	BAR DIA	ORIEN	LOC	LENGTH
17018	0.5000"	Long	MR	1.5"

WEIGHT LOSS

120 Degrees Fahrenheit for 8 hours. Weigh sample at beginning of test and at 1, 2, 3, 4, 6, and 8 hours.
 Specimen Dimensions: L = 60.45mm, W = 27.64mm, T = 12.35mm
 Initial Weight = 55.234g

Hours Weight (g)

(1) 55.196 (2) 54.656
 (3) 53.412 (4) 51.934
 (6) 49.451 (8) 47.134

***** 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.



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RESULTS

Elapsed Time	Length (mm)	Width (mm)	Thickness (mm)	Weight (g)	Temperature (°F)	Mass Loss (g)	Mass Loss/mm ²
0 Hour (start)	60.45	27.64	12.35	55.234	120	0	0
1 Hour	—	—	—	55.196	120	0.038	6.88718E-06
2 Hours	—	—	—	54.656	120	0.578	0.000104758
3 Hours	—	—	—	53.412	120	1.822	0.000330222
4 Hours	—	—	—	51.934	120	3.3	0.000598097
6 Hours	—	—	—	49.451	120	5.783	0.00104812
8 Hours	—	—	—	47.134	120	8.1	0.001468056

Surface Area (Start): **5517.499 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

