phenom innovations™

221 W Airtex Blvd
Suites 105-110
Houston, TX 77090

phenom-us.com
P: (281) 877-9919
F: (281) 877-9945

WRAITH™ Raw Material

Third Party Test: Compound E

ISO 9001-2008
ISO/IEC 17025:2005
ACCREDITED
LAB# W15014245
Certified
10-15-2015 11:32

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

Customer:

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

PO NO	PO-0001-Test
PART NO	Compound E
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
32467	14214	13.80	15.30	0.5020"	Long	MR

COMPRESSION

YS.2% PSI	BAR DIA	ORIEN	LOC	LENGTH
15149	0.4980"	Long	MR	1.5”

WEIGHT LOSS

200 Degrees Fahrenheit for 8 hours. Weigh sample at beginning of test and at 1, 2, 3, 4, 6, and 8 hours.

Specimen Dimensions: OUTER DIAMETER = 65.20 mm, THICKNESS = 14.70 mm
Initial Weight = 127.451g

Hours Weight (g)

(1) 125.573 (2) 123.398
(3) 119.240 (4) 115.168
(6) 106.322 (8) 96.050

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

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 PJLA. Accreditation No 70049. Uncertainty information, pertinent to ISO 17025 Accredited Results, is available upon request.

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

WRAITH™ Raw Material

Third Party Test: Compound E

ISO 9001-2008
ISO/IEC 17025:2005
ACCREDITED
LAB# W15014245
Certified
10-15-2015 11:32

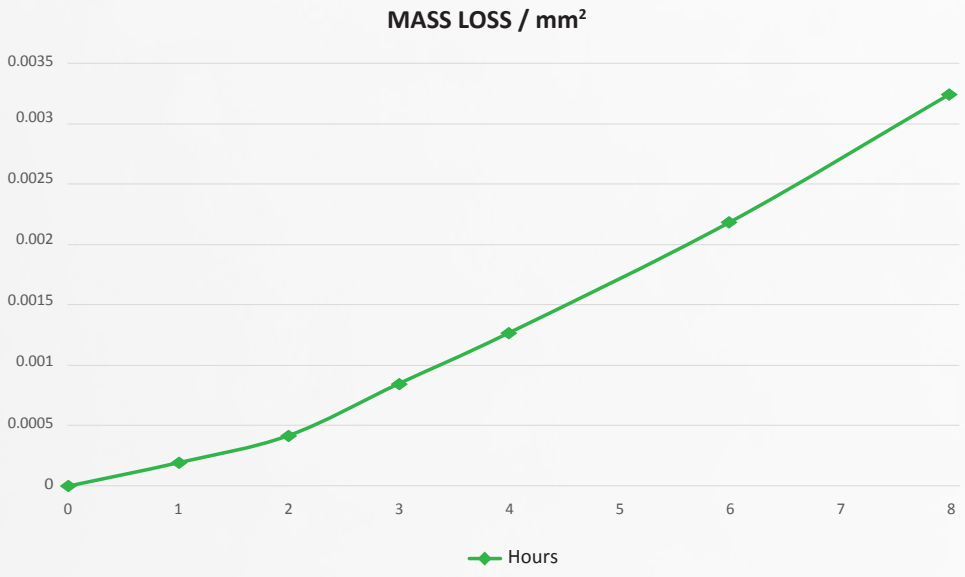
RESULTS

Elapsed Time	O.D. (mm)	Thickness (mm)	Weight (g)	Temperature (°F)	Mass Loss (g)	Mass Loss/mm²
0 Hour (start)	65.20	14.70	127.451	200	0	0
1 Hour	—	—	125.573	200	1.878	0.000193837
2 Hours	—	—	123.398	200	4.053	0.000418329
3 Hours	—	—	119.240	200	8.211	0.000847496
4 Hours	—	—	115.168	200	12.283	0.001267786
6 Hours	—	—	106.322	200	21.129	0.002180823
8 Hours	—	—	96.05	200	31.401	0.003241044

Surface Area (Start): **9688.50 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.



To request additional info please email: info@phenom-us.com