# **AEROTECH G55**

# CERTIFIED VALUES

**Total Impulse:** 125 newton-seconds **Delays:** 5, 10, 15 seconds

Propellant Type: Composite Fropellant Mass: 62.5 grams

Casing Dimensions: 24 mm × 177 mm

**Certification Date:** 89-March-27 **Contest Use Date:** 89-June-27

Certification Type: Model Rocket

## STATIC TEST DATA

**Date Tested:** 95-September-2

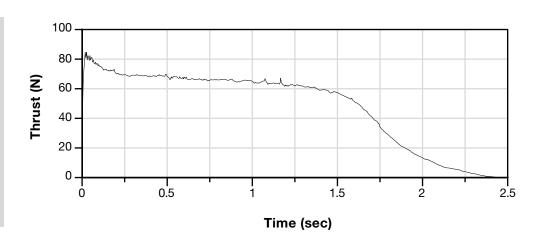
Total Impulse:119.57 newton-seconds ( $\sigma$  3.57)Peak Thrust:84.65 newtons ( $\sigma$  0.99)Burn Time:2.44 seconds ( $\sigma$  0.06)

Average Thrust: 49.00 newtons

Mass After Firing: 42.3 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
5	4.81	115.3 g	851 g
10	9.60	114.8 g	536 g
15	13.77	114.4 g	340 g

### TYPICAL THRUST-TIME CURVE



### **REMARKS**

```
; Aerotech G55 RASP.ENG file made from NAR published data
; File produced July 4, 2000
; The total impulse, peak thrust, average thrust and burn time are
; the same as the averaged static test data on the NAR web site in
; the certification file. The curve drawn with these data points is as
; close to the certification curve as can be with such a limited
; number of points (32) allowed with wRASP up to v1.6.
 G55 24 117 5-10-15 .0625 .1148 A
0.009
       81.136
0.014
       84.650
0.034
       80.557
0.084
       77.064
0.130
       71.823
0.180
       72.422
0.206
       68.919
0.342
       69.538
0.483
       68.989
0.513
       66.663
0.543
       68.420
0.664
       66.114
0.876
       66.164
0.901
       64.418
0.997
       65.026
1.062
       66.793
1.088
       63.879
1.148
       63.889
1.158
       66.813
1.173
       63.310
1.209
       62.741
1.325
       61.593
1.395
       59.277
1.456
       57.541
1.486
        58.129
1.587
       52.320
1.708
       40.094
1.824
       26.110
1.950
       15.630
2.112
       7.498
2.258
        3.446
       0.000
2.440
```

