

AEROTECH G80

CERTIFIED VALUES

Total Impulse: 120 newton-seconds
Delays: 4, 7, 10 seconds

Propellant Type: Composite
Propellant Mass: 57.4 grams

Casing Dimensions: 29 mm × 124 mm

Certification Date: 88-February-26
Contest Use Date: 88-May-25

Certification Type: Model Rocket

STATIC TEST DATA

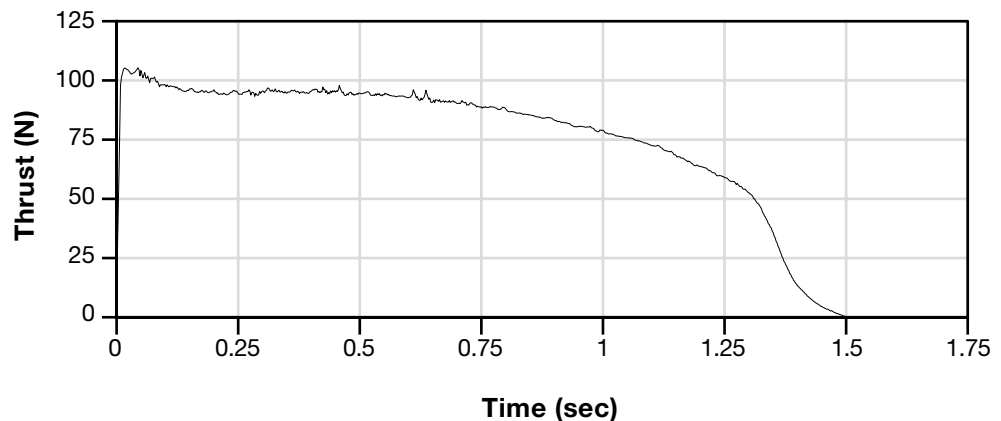
Date Tested: 95-September-2

Total Impulse: 116.25 newton-seconds (σ 2.15)
Peak Thrust: 105.18 newtons (σ 4.01)
Burn Time: 1.50 seconds (σ 0.04)
Average Thrust: 77.50 newtons

Mass After Firing: 43.5 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	4.15	104.9 g	1474 g
7	7.13	106.6 g	907 g
10	9.10	103.2 g	567 g

TYPICAL THRUST-TIME CURVE



REMARKS

Original certification was for Blue Thunder propellant. Fast White Lightning was certified as of 97-December-15 for general use, contest use as of 98-February-13.

; Aerotech G80 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.

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G80 29 124 4-7-10 .0574 .1049 A
0.006 101.291
0.013 105.180
0.031 103.473
0.038 104.069
0.067 99.803
0.103 96.906
0.181 94.733
0.271 94.039
0.303 96.985
0.367 95.547
0.428 94.842
0.456 97.055
0.463 92.650
0.510 94.872
0.596 93.444
0.606 95.646
0.624 91.985
0.635 95.656
0.646 91.995
0.696 90.547
0.846 85.477
0.960 80.388
1.071 74.564
1.207 62.878
1.296 52.639
1.350 37.252
1.382 20.397
1.418 10.139
1.457 4.281
1.500 0.000
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