

AEROTECH G40

CERTIFIED VALUES

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

Propellant Type: Composite
Propellant Mass: 62.4 grams

Casing Dimensions: 29 mm × 124 mm

Certification Date: Continuing
Contest Use Date: Continuing

Certification Type: Model Rocket

STATIC TEST DATA

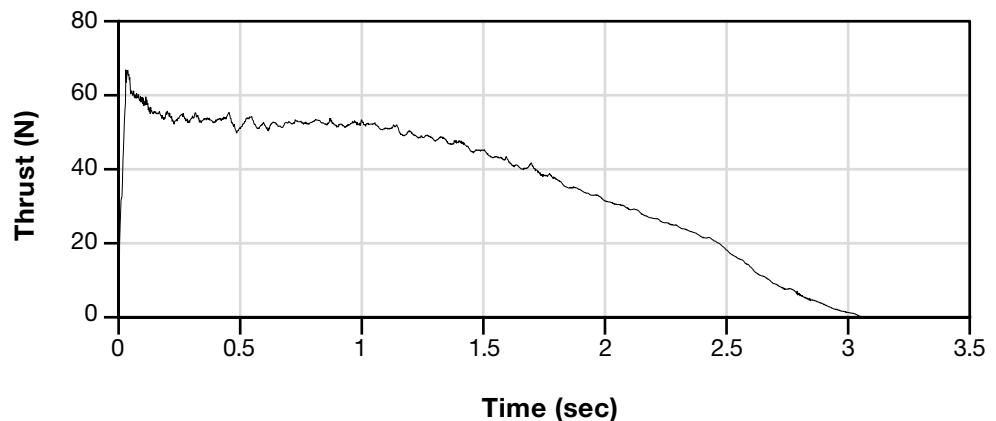
Date Tested: 95-September-2

Total Impulse: 113.74 newton-seconds (σ 1.52)
Peak Thrust: 66.85 newtons (σ 6.81)
Burn Time: 3.06 seconds (σ 0.07)
Average Thrust: 37.17 newtons

Mass After Firing: 46.0 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
4	3.48	114.0 g	1020 g
7	7.97	115.0 g	680 g
10	11.15	114.6 g	397 g

TYPICAL THRUST-TIME CURVE



REMARKS

This motor is offered in two propellant formulations. The "White Lightning" propellant is certified for contest use. The "Classic" propellant is not contest certified.

; Aerotech G40 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.

G40	29	124	4-7-10	.0624	.1146	A
0.027	50.310					
0.041	66.850					
0.096	59.456					
0.178	54.878					
0.287	53.056					
0.390	53.056					
0.451	55.793					
0.485	50.310					
0.533	54.425					
0.574	51.225					
0.711	53.056					
0.909	51.678					
1.087	50.762					
1.148	51.678					
1.251	48.941					
1.401	47.110					
1.600	42.994					
1.675	40.248					
1.709	41.616					
1.771	37.963					
1.900	34.301					
2.051	30.186					
2.276	25.155					
2.454	20.576					
2.516	16.461					
2.632	11.430					
2.769	7.318					
2.871	4.116					
3.060	0.000					

