

AMW K1075

CERTIFIED VALUES

Total Impulse: 2400 newton-seconds
Delays: Plugged
Propellant Type: Composite / Green Gorilla
Propellant Mass: 1399.9 grams
Casing Dimensions: 54 mm x 728 mm
Certification Date: 2003–January–20

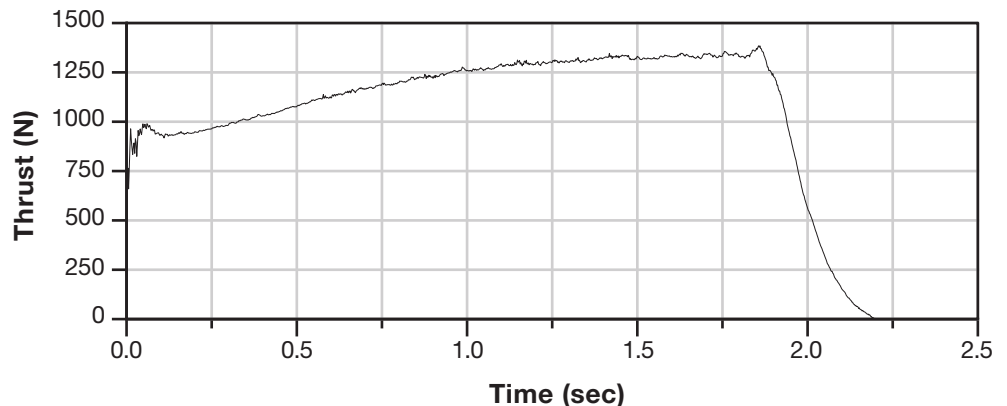
Certification Type: High Power Rocket

STATIC TEST DATA

Date Tested: 2003–January–19
Total Impulse: 2392.47 newton-seconds (σ 23.66)
Peak Thrust: 1384.67 newtons (σ 55.84)
Burn Time: 2.20 seconds (σ 0.05)
Average Thrust: 526.91 newtons
Mass After Firing: 1254.6 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	2665.8 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 54-2550 casing and Animal Motor Works K1075GG-P-SM reload kit. No substitutions allowed. Produces 10 to 15 seconds of tracking smoke after burnout.

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; Animal Motor Works K1075 RASP.ENG file made from NAR data
; File produced Feb 22, 2003
; 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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K1075 54 726 P 1.3999 2.6658 AW
0.009 672.664
0.015 963.511
0.022 860.518
0.047 987.857
0.075 975.835
0.106 921.332
0.215 958.001
0.529 1092.053
0.878 1220.294
1.077 1269.387
1.158 1311.466
1.235 1293.432
1.448 1330.501
1.577 1318.479
1.672 1319.481
1.721 1337.515
1.759 1337.515
1.805 1337.515
1.829 1331.503
1.856 1384.670
1.889 1277.402
1.906 1216.287
1.938 1052.980
1.960 871.338
1.988 659.239
2.027 453.352
2.062 301.967
2.115 138.460
2.168 41.608
2.200 0.000

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