

ANIMAL MOTOR WORKS L777

CERTIFIED VALUES

Total Impulse: 3180 newton-seconds
Delays: Plugged

Propellant Type: Composite / White Wolf
Propellant Mass: 1762.3 grams

Casing Dimensions: 75 mm x 497 mm

Certification Date: 02-August-25

Certification Type: High Power Rocket

STATIC TEST DATA

Date Tested: 02-August-24

Total Impulse: 3136.62 newton-seconds (σ 26.21)

Peak Thrust: 1000.16 newtons (σ 9.13)

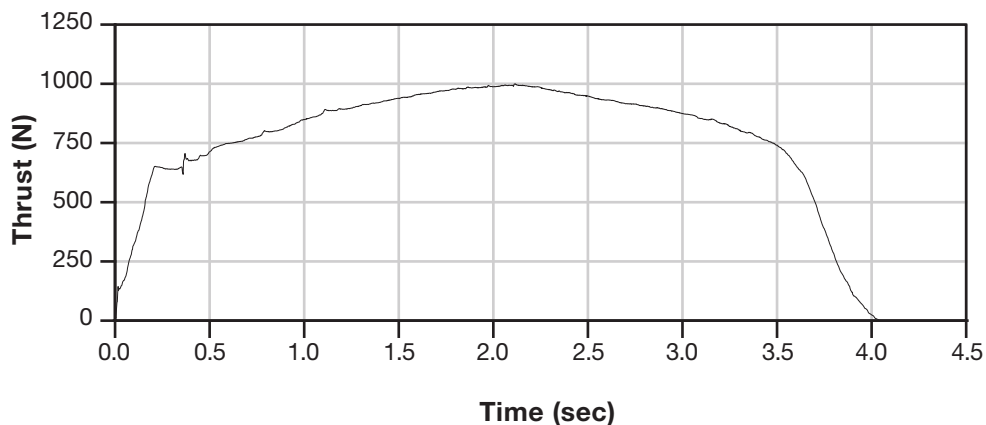
Burn Time: 4.05 seconds (σ 0.03)

Average Thrust: 774.47 newtons

Mass After Firing: 1892.7 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	3698.7 g	

TYPICAL THRUST-TIME CURVE



REMARKS

Consists of the Animal Motor Works 75-3500 motor and Animal Motor Works L777WW-P-SM reload kit. No substitutions allowed. Produces 10 to 15 seconds of tracking smoke after burnout.



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; AMW L777 RASP.ENG file made from NAR published data
; File produced SEPT 4, 2002
; 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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L777 75 497 P 1.7623 3.6987 AMW
0.025 140.882
0.064 209.474
0.108 360.055
0.204 652.185
0.360 641.518
0.373 693.745
0.418 683.28
0.528 730.073
0.670 761.268
0.761 781.998
0.787 802.828
0.871 802.728
1.065 854.754
1.338 911.811
1.668 963.636
1.914 989.498
2.115 1000.16
2.368 962.831
2.647 926
2.985 878.603
3.303 805.143
3.472 752.815
3.550 705.72
3.602 648.26
3.647 611.631
3.693 512.409
3.779 334.897
3.857 178.216
3.935 89.379
3.981 26.687
4.050 0

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