

# ANIMAL MOTOR WORKS L1060

## CERTIFIED VALUES

**Total Impulse:** 3700 newton-seconds  
**Delays:** Plugged  
**Propellant Type:** Composite / Green Gorilla  
**Propellant Mass:** 1918.8 grams  
**Casing Dimensions:** 75 mm x 497 mm  
**Certification Date:** 02-July-1

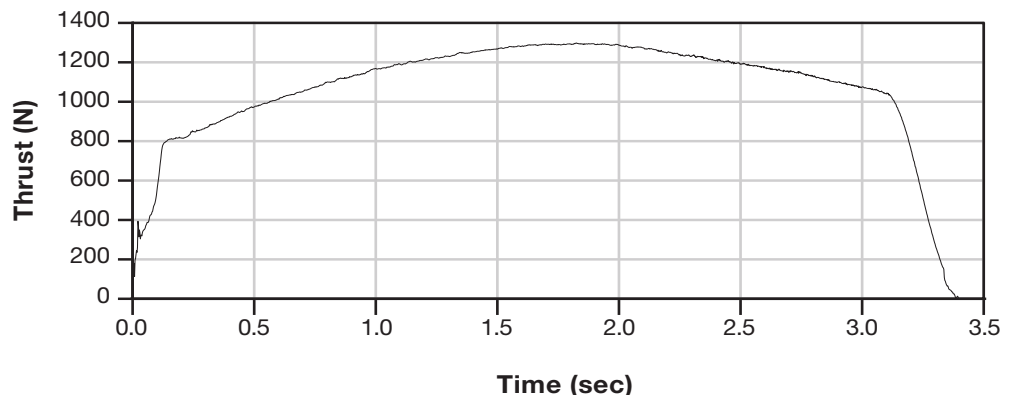
**Certification Type:** High Power Rocket

## STATIC TEST DATA

**Date Tested:** 02-June-30  
**Total Impulse:** 3622.62 newton-seconds ( $\sigma$  99.71)  
**Peak Thrust:** 1298.25 newtons ( $\sigma$  46.19)  
**Burn Time:** 3.40 seconds ( $\sigma$  0.05)  
**Average Thrust:** 1065.48 newtons  
**Mass After Firing:** 2009.4 grams

Delay Time	Average Measured Delay	Initial Mass	Mfg Recommended Max Liftoff Weight
P	None	3938.8 g	

## TYPICAL THRUST-TIME CURVE



## REMARKS

Consists of the Animal Motor Works 75-3500 motor and Animal Motor Works L1060GG-P-SM reload kit. No substitutions allowed. Produces 10 to 15 seconds of tracking smoke after burnout.

; AMW L1060 RASP.ENG file made from NAR published data  
; File produced August 22, 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.

	L1060	75	497	P-	1.9188	3.9388	AMW
0.020	258.773						
0.024	368.235						
0.032	328.386						
0.076	427.96						
0.100	567.284						
0.116	751.352						
0.128	791.202						
0.169	816.071						
0.225	816.071						
0.309	875.795						
0.518	985.257						
0.763	1079.639						
1.024	1174.519						
1.308	1229.45						
1.606	1288.375						
1.782	1298.25						
1.983	1293.369						
2.256	1239.437						
2.525	1184.506						
2.822	1129.576						
3.038	1069.651						
3.111	1044.683						
3.135	995.145						
3.183	835.946						
3.239	552.303						
3.299	268.661						
3.327	164.193						
3.339	84.593						
3.360	44.783						
3.400	0						

