

# Estes E30

## CERTIFIED VALUES

Total Impulse: 33.56 newton-seconds  
Delays: 4, 7

Propellant Type: Composite  
Propellant Mass: 17.8 grams

Casing Dimensions: 24 mm × 70 mm

Certification Date: 10-August-1

Certification Type: Model Rocket

## STATIC TEST DATA

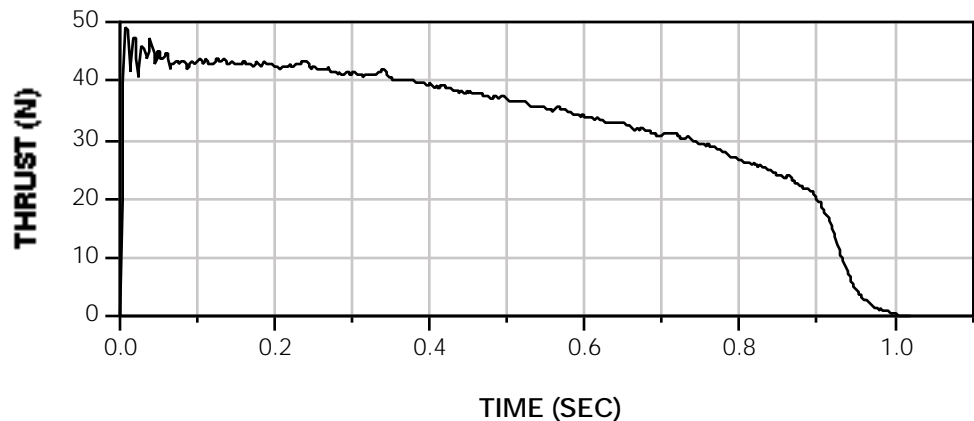
Date Tested: 10-July-3

Total Impulse: 33.56 newton-seconds ( 0.31)  
Peak Thrust: 49.30 newtons ( 2.56)  
Burn Time: 1.02 seconds ( 0.05)  
Average Thrust: 32.95 newtons

Mass After Firing: 25.0 grams

Delay Time	Average Measured Delay	Initial Mass
4	3.71	47.0 g
7	7.17	47.0 g

## TYPICAL THRUST-TIME CURVE



## REMARKS

New molded case



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;Estes E30 RASP.ENG file made from NAR published data
; File produced Sept 30, 2010
; 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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E30 24 70 4-7 .0178 .047 A

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0.006 49.3000
0.030 45.7010
0.038 47.1810
0.050 45.1800
0.062 43.7010
0.112 43.4020
0.138 42.8170
0.206 42.0730
0.238 43.3680
0.282 41.5750
0.324 41.0860
0.342 41.7330
0.362 40.1680
0.436 38.1580
0.524 36.3980
0.650 32.9720
0.712 31.0500
0.836 25.0770
0.874 22.4750
0.888 21.5080
0.900 20.0080
0.912 17.1760
0.924 13.3000
0.942 6.6500
0.962 2.7550
0.974 1.6370
0.988 0.7810
1.000 0.4290
1.010 0.1410
1.020 0.0000

```

