

AEROTECH G79

CERTIFIED VALUES

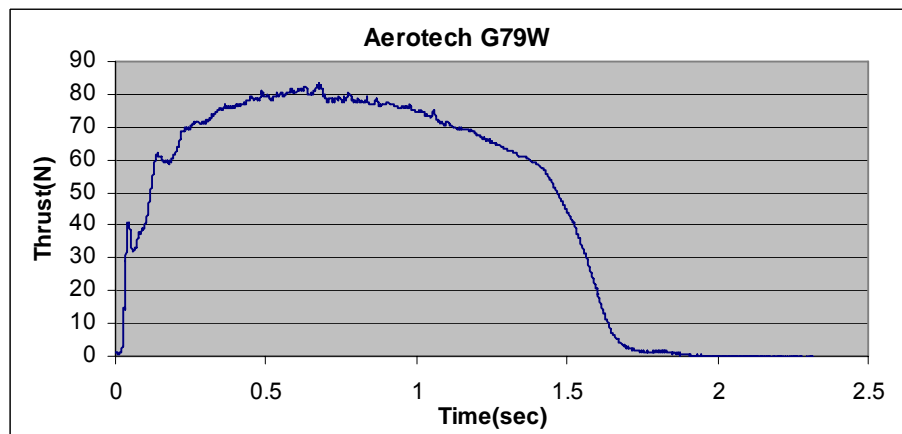
Total Impulse: 108 Newton-seconds
Delays: 4, 7, 10 seconds
Propellant Type: White Lightning
Propellant Mass: 60.1 grams
Casing Dimensions: 29 mm × 146 mm
Certification Date: January 31, 2007
Certification Type: Model Rocket Motor

STATIC TEST DATA

Date Tested: June 3, 2006
Total Impulse: 108.3 Newton-seconds (σ 1.7)
Peak Thrust: 93.9 Newtons (σ 7.5)
Burn Time: 1.50 seconds (σ 0.14)
Average Thrust: 72.6 Newtons (σ 7.1)
Mass After Firing: 59 grams

Delay Time(sec.)	4	8	10
Average Measured Delay(sec.)	3.37	6.10	9.16
Initial Mass (gm.)	123	124	124

TYPICAL THRUST-TIME CURVE



REMARKS

Certification is for both Single Use and LMS motors.



WRASP Data for Aerotech G79

; Exported using ThrustCurveTool, www.ThrustGear.com

; @File: G79_Ave.txt, @Pts-I: 1162, @Pts-O: 33, @Sm: 5, @CO: 5%

; @TI: 106.4155, @Tla: 106.0632, @Tle: 0.0%, @ThMax: 82.1771, @ThAvg: 64.1443, @Tb: 1.659

G79 29 146 4,7,10 0.0601 0.0124 Aerotech

0.000	0.4562
0.014	1.1376
0.018	3.2129
0.022	6.2017
0.034	27.3705
0.040	33.5757
0.044	34.8528
0.062	33.5201
0.096	39.9175
0.128	56.9842
0.138	60.0917
0.182	59.6191
0.230	68.8942
0.266	71.3440
0.300	71.6246
0.360	75.8167
0.484	79.6244
0.516	78.6333
0.678	82.1075
0.700	78.8360
0.720	78.1790
0.772	79.5565
1.054	73.7176
1.086	71.1520
1.182	68.8555
1.420	57.2479
1.520	40.7567
1.562	30.5794
1.628	11.8028
1.652	7.1707
1.680	3.9601
1.738	1.6764
1.928	0.0000