

AEROTECH G77

CERTIFIED VALUES

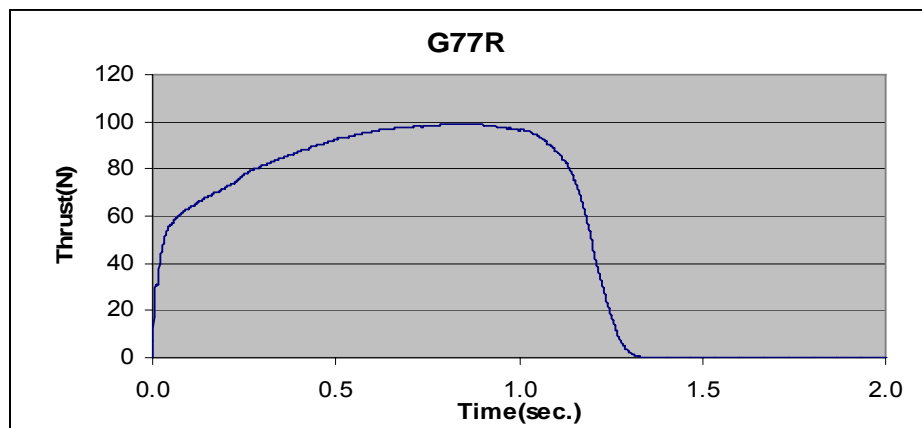
Total Impulse: 103 Newton-seconds
Delays: 4, 7, 10 seconds
Propellant Type: Redline
Propellant Mass: 59.1 grams
Casing Dimensions: 29 mm × 124 mm
Certification Date: August 29, 2006
Certification Type: Model Rocket Motor

STATIC TEST DATA

Date Tested: June 3, 2006
Total Impulse: 102.9 Newton-seconds (σ 0.2)
Peak Thrust: 100.5 Newtons (σ 6.3)
Burn Time: 1.28 seconds (σ 0.02)
Average Thrust: 80.1 Newtons (σ 0.9)
Mass After Firing: 59 grams

Delay Time(sec.)	4	7	10
Average Measured Delay(sec.)	3.70	7.43	10.05
Initial Mass (gm.)	122	123	123

TYPICAL THRUST-TIME CURVE



REMARKS

Certification is for both Single Use and LMS motors.



WRASP Data for Aerotech G77

; Exported using ThrustCurveTool, www.ThrustGear.com

; @File: G77R_Combined.txt, @Pts-I: 801, @Pts-O: 32, @Sm: 0, @CO: 5%

; @TI: 102.2643, @TIa: 102.1707, @Tle: 0.0%, @ThMax: 97.1194, @ThAvg: 79.5831, @Tb: 1.285

G77R SU/LMS 29 3150 4,7,10 0.0591 0.123 Aerotech

0.0025	7.2088
0.0075	26.6182
0.0100	30.4644
0.0125	29.6803
0.0150	30.7562
0.0175	34.1276
0.0200	38.9233
0.0250	44.1764
0.0350	50.9497
0.0450	54.4691
0.0825	60.1360
0.1275	65.0493
0.2200	72.0840
0.2725	78.0252
0.4350	87.5469
0.5050	90.9053
0.6250	94.7471
0.8000	97.0556
0.8850	96.9598
1.0275	94.1242
1.0725	90.1518
1.1100	84.4196
1.1375	78.7832
1.1625	69.4879
1.1775	61.8087
1.2100	40.3390
1.2425	21.6135
1.2625	12.3051
1.2875	4.6607
1.3075	1.5593
1.3325	0.2657
1.6275	0.0000