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March 22, 2025

ABRA Space LTD.
71-75, Shelton Street, Covent Garden
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The MAYA 18 rocket engine was tested on 22 March 2025 by the ABRA Space team at our test stand. This test was carried out for the purpose of evaluating data on the performance of the engine, and no definitive determination was made as to its full compliance with the NFPA 1125 standard. However, according to the test results, the engine was judged to be suitable for model rocketry use and was approved by members of the ABRA Space Engine Testing Division.

Motor Details

Motor Manufacturer	ABRA Space LTD.
Manufacturer's Designation	ARMS – Amateur Rocket Motor System, single use
Propellant	C-Slot & Standart Burn
TMT Nomenclature	782 / C

Physical Characteristics

Diameter	0.709’’	/ 18 mm
Overall Length (Forward Closure & Nozzle Included)	3.740”	/ 95 mm
Case Length	2.756’’	/ 70 mm
Inner Diameter	0.610’’	/ 15,5 mm
Wall Thickness	0.049’’	/ 1,25 mm

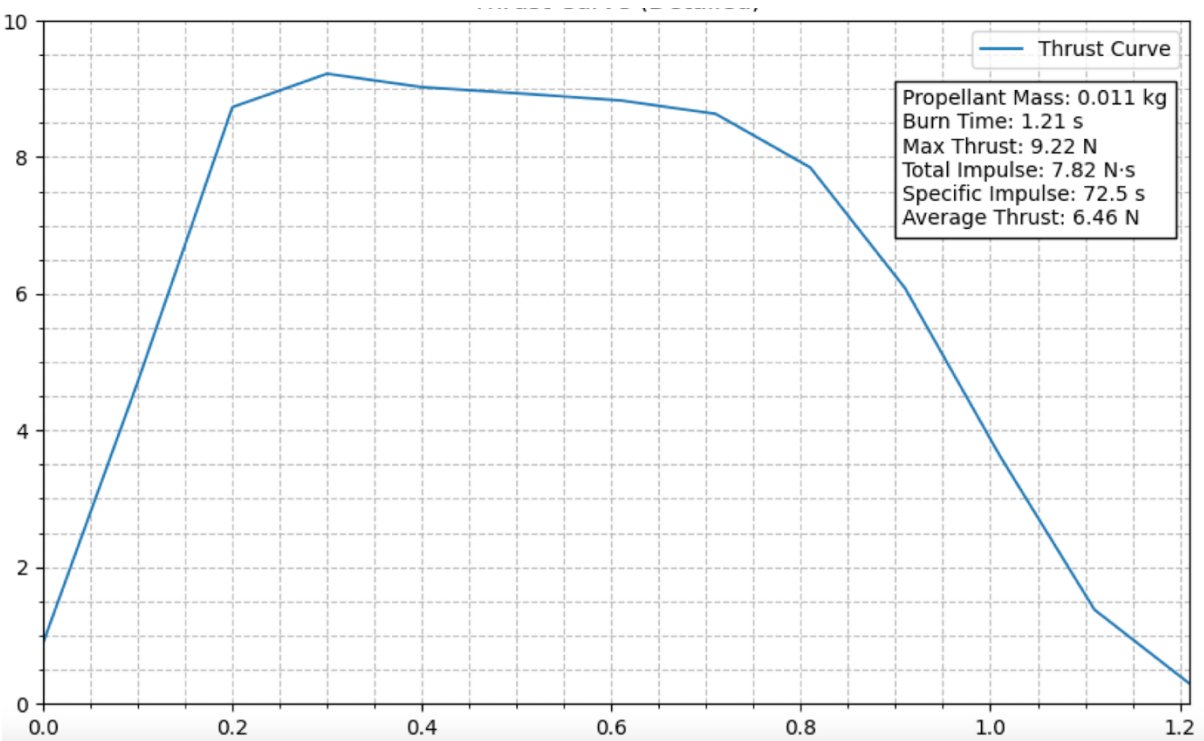
Mass Data

Loaded Mass	0.046 lb	/ 21 g (± 5g)
Propellant Mass	0.024 lb	/ 11 g*
Burnout Mass	0.022 lb	/ 10 g

Performance Data

Burn Time	1.21 sec	
Total Impulse	1.758 lbf.s	/ 7.82 N.s
Specific Impulse	72.5 sec	
Max Thrust	2.073 lbf	/ 9.22 N
Average Thrust	1.452 lbf	/ 6.46 N

(*data provided by manufacturer)



Sincerely,

ABRA Space LTD.