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April 2, 2025

ABRA Space LTD.
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The TEO 18 rocket engine was tested on 2 April 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	746 / C

Physical Characteristics

Diameter	0.709’’ / 18 mm
Overall Length (Forward Closure & Nozzle Included)	4.330” / 115 mm
Case Length	3.543’’ / 90 mm
Inner Diameter	0.610’’ / 15,5 mm
Wall Thickness	0.049’’ / 1,25 mm

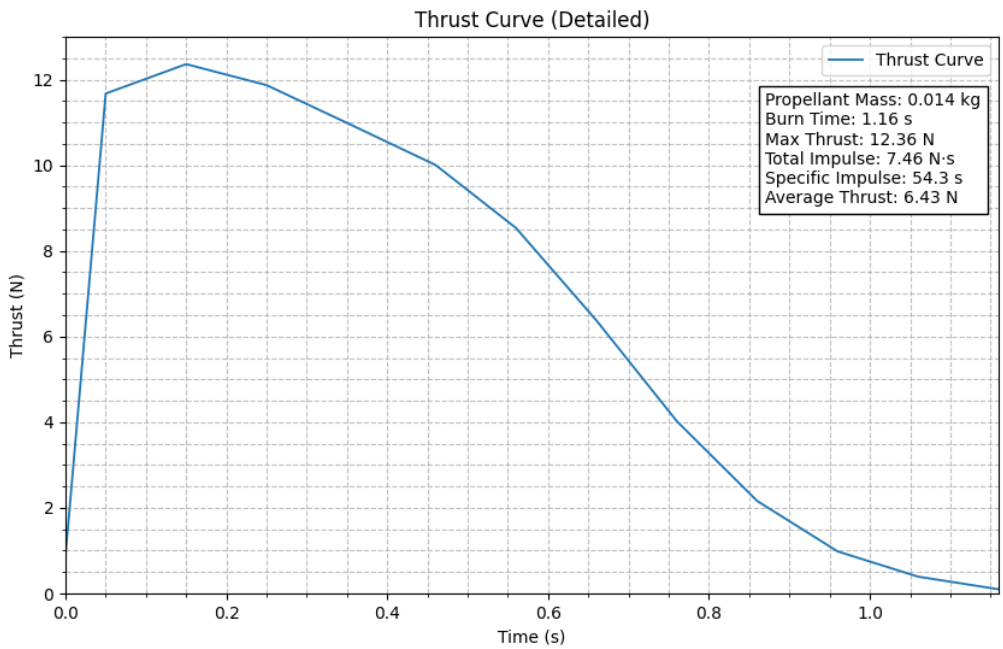
Mass Data

Loaded Mass	0.057 lb / 26 g (± 5g)
Propellant Mass	0.031 lb / 14 g*
Burnout Mass	0.027 lb / 12 g

Performance Data

Burn Time	1.16 sec
Total Impulse	1.677 lbf.s / 7.46 N.s
Specific Impulse	54.3 sec
Max Thrust	2.778 lbf / 12.36 N
Average Thrust	1.445 lbf / 6.43 N

(*data provided by manufacturer)



Sincerely,

ABRA Space LTD.