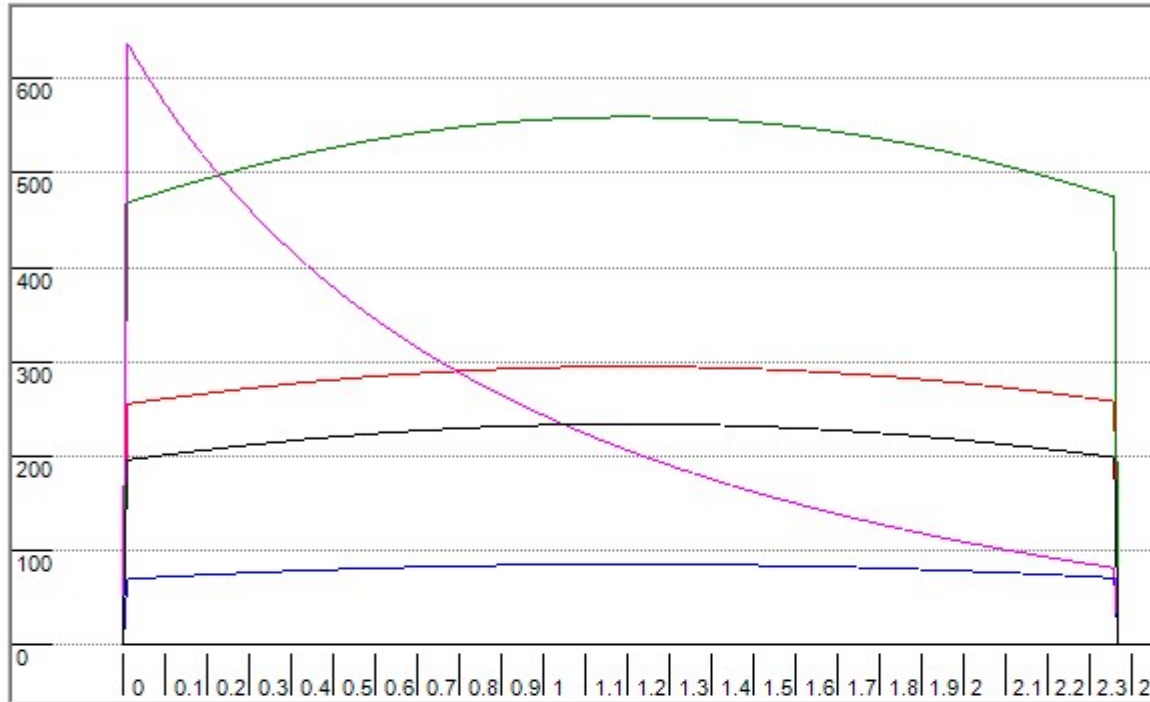


EasyMotor Purple Pig Hudson Ranch Test.bsx - 10/19/20

BurnSim version 3.1.8.0 - www.BurnSim.com



Motor Characteristics

Initial Kn: 255
Max Kn: 295
Max Pc: 559.3 psi
Volume Loading: 87.5 %
Port / Throat Area: 2.57
Throat / Port Area: 0.389
Core L/D Ratio: 14.3
Web: 0.57 in.
Burn Time: 2.36 sec.
Prop. Length.: 8.968
Prop. Mass: 1.041 lbs
Total Impulse: 838 NS
Motor Class: 31% J-355
Delivered ISP: 181
Peak Mass Flux: 1.27523
Nozzle Throat Diameter: 0.39
Nozzle Exit Diameter: 1.05
Nozzle Expansion Ratio: 7.25

Propellant Grains

#	Length	Diameter	Core	Inhib.	Type	Propellant
1	2.996	1.765	0.625	0	BATES	Purple Pi...
2	2.994	1.765	0.625	0	BATES	Purple Pi...
3	2.978	1.765	0.625	0	BATES	Purple Pi...