

PML SPECS PAGE FAQ

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Specification Sheets

PML provides various specification sheets on our website for customer convenience. Public Missiles' specifications documents are made available to you in the Adobe Acrobat Portable Document Format (*.pdf). We make them available to you in this format so the document can be viewed or printed, either online or offline, using your monitor and your own printer. If needed, the PDF viewer is available through a link on our site as well. On rare occasions customers report they cannot view a PDF file while on the website; this seems to usually be from unusual user computer configurations. We would like to remind you that you can always right-click on a file and save it to your local hard drive and open it from there.

Kit Specifications

The purpose of this chart is to show you various specifications customers are often interested in, such as length, weight, diameter, fin thickness, Center of Pressure, launch lug size, stock parachute size, and other information.

Motor Recommendations, Predicted Altitude and Ejection Delay Chart

The purpose of the Motor Recommendations Chart is to give you an example of possible altitudes that can be attained with various rocket/motor combinations. All motors shown except hybrids are made by Aerotech. Motors of different total or average impulse or motors from other manufacturers may work as well. Consult your favorite motor manufacturer or dealer. Match motor to rocket for approximate altitude and ejection delay time. Optimum delay time is printed after the estimated altitude. The numbers on the chart are from simulations run using RockSim 4.0 software. All these simulations are run on "bone-stock" kits, so if you add nose weight or make other modifications you will need to adjust accordingly. Be sure to read the information on the first page of the chart thoroughly! It explains the chart in detail as well as giving you helpful tips on kits, motors and delays.

Keep in mind that these predictions were made with the "flight day" set as no wind, no launch rod angle, and with the launch site at 500' above sea level, 70° F, and 75% humidity. Days with absolutely no wind are quite rare, so be sure to compensate for flight conditions on the day you actually fly. For example, if it is a windy day and you've added some launch rod angle, the rocket's altitude will be lower, and you may also need a slightly shorter delay. Conversely, if you're flying in a high-altitude area (Denver, for example), the air is thinner and therefore produces slightly less drag on the rocket. In that case you may want to choose a slightly longer delay. The essential thing to remember is that these are just simulations. Launch conditions such as wind, temperature, and variations in motor impulse due to manufacturing variations in the motor can and WILL cause differences in actual flights. PML recommendations for motors, delays, and altitude predictions are to be used only as a guideline to provide you a starting point for making

your decision as to what motor and delay to fly for the launch conditions at the time of flight.

Information is also shown in the chart regarding motor/kit combinations that should be strengthened or otherwise require special treatment. This is explained in the chart, and additional information can be found in the Kit Strengthening section of the Airframes FAQ.

Data Sheets

The Data Sheets are available for nearly every kit PML makes, and are available by clicking on a link under the description of the kit in the webstore. These sheets show a photo of the kit, list the kit's features and specs, and have a mini Motor Recommendations Chart on them, all on a single "printer-friendly" page. (Of course we recommend you always look at the full Motor Recommendations Chart on the Specs Page of the website for the latest information).