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PML News Volume 12: New Product "Quantum Tube" & Phenolic Tubing Price Reduction

We're VERY excited to announce a product we've been working on for the past 9 months or so to perfect...PML Quantum Tube! Now THIS is something to get excited about! We've heard people saying they want another choice in addition to our premium phenolic tubing, and we've been working very hard to get it ready for you. PML has always been a leader in high-power rocketry products, and we've done it again. Quantum Tube has everything you want in a top-notch airframe tube, with none of the disadvantages of some other airframe tubing products.

Attached are two RTF files:

QTPRESS.RTF: Press Release on Quantum Tube describing this great new product, as well as showing our reduction in phenolic tubing pricing effective May 17, 1999.

QTNOTIC.RTF: Important "Do's and Don'ts" information for working with Quantum Tube.

It's been a long, hard road working on this product, but now it's ready and we're darn proud of it! Check it out! We hope to have some photos on our website in a week or two, but if you have a local dealer that carries PML, they've been shipped a sample in the past couple of weeks, so go in and ask to take a look.

(PS: We've also just merged a couple of email databases, so if you've previously requested NOT to be on the PML Email List and you've received this message in error, please reply and let me know and I'll be happy to remove you. I apologize in advance for any inconvenience.)

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For immediate release

Introducing the "Quantum Tube" (QT) impact resistant airframes.

We are excited to announce two important items...

A totally new airframe product, and reduced retail pricing on existing phenolic airframes.

After large investments of time & capital, plus months of extensive testing, we are proud to deliver a totally new airframe tube for the rocket industry. Public Missiles Ltd. will introduce the new *Quantum Tube* on May 12, 1999. These new tubes are made in the USA from a special blended polymer that is extremely durable and easy to use. You will find this new material easy to work with and very forgiving, even during those "less than perfect" flights. Most epoxies and paints will readily adhere to this material. The *Quantum Tube* has been tested and found compatible with the following paints: lacquer, enamel, epoxy and urethane, as well as many different primers. The *Quantum Tube* can be squeezed, dropped, or even thrown and will not suffer any damage as can sometimes occur to cardboard or phenolic tube. The *Quantum Tubes* are molded in medium gray and have a glass smooth finish. The *Quantum Tube* does have one thing missing: the spiral groove!!! You will appreciate the fact that you no longer have to fill and sand the airframes to achieve the perfect finish.

We will initially introduce the *Quantum Tube* in 2.15 ID and 2.56 ID diameters, at \$9.50 and \$10.95 respectively per 36" section. These tubes will be phased into all of our kits of those diameters. Shortly after this introduction we will release Public Missiles Ltd. *Quantum Tube* in the 3.002 ID and 3.90 ID diameters. The 3- and 4-inch kits will then be upgraded with the *Quantum Tube* as well. The *Quantum Tube* can be purchased separately and will be priced lower than what the current phenolic retails at. All *Quantum Tube* part numbers will be prefaced with the letters QT, such as "QT-2.152".

Our premium phenolic tubes will still be available in all popular sizes. Motor tubes and other internal components will remain phenolic as they always have been. All phenolic airframes through PT-7.512 will be reduced in price as much as 19% (depending on the diameter). Phenolic tubing pricing, effective May 17, 1999 is as follows:

PT-1.145, \$6.95
PT-1.525, \$7.95
PT-2.152, \$9.50
PT-2.560, \$9.95
PT-3.002, \$11.50
PT-3.900, \$12.95
PT-6.007, \$29.95
PT-7.512, \$34.95

If you have any questions about the *Quantum Tube* or the rest of our product line, you can contact PML at **1-810-468-1748**, 9-5pm EST, Monday-Friday.

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IMPORTANT NOTICE:

PLEASE READ BEFORE USING THE QUANTUM TUBE (QT)

The Quantum Tubes have been tested and found to be compatible with most paints and epoxies. Paints tested were lacquer, enamel, epoxy, and urethane, including various primers. As with any paint, apply several light coats allowing each to flash before re-coating. Most brands of epoxy adhesive bond well with no adverse affect to the tubing.

The bonding area must be sanded prior to applying epoxy. Follow the suggestions in “Do’s and Don’ts” below.

The Quantum Tubes are resistant to the heat of ejection charges. As with any tube, repeated ejections will leave a black, gritty residue inside the tube. To remove the residue simply wipe the tube interior with a wet cloth wrapped around a dowel or broom stick and allow to dry.

DO’S AND DON’TS FOR USING THE QUANTUM TUBE (QT)

Do’s:

Before applying paint to the QT lightly sand the outside of the QT using 320 or 400 grit sandpaper.

Sand the fin fillet area on each side of fin slots using 150-grit sandpaper before applying epoxy to fin and tube.

Use the edge of an X-Acto knife to de-burr cut ends of QT.

Sand the inside area of the QT using 120 or 150 grit sandpaper wherever parts are to be epoxied to the QT. Most hobby epoxies can be used with the QT. Sandpaper flappers on a drill, sandpaper glued to a large wood dowel, sandpaper on the end of a stick, etc. can be used to prepare the inside of the QT for epoxy.

Using alcohol or mineral spirits will not damage the gloss finish on the QT.

Don’ts:

Do not wipe or spill lacquer thinner or acetone on the Quantum Tube, either will melt or distort the tube.

Heavy amounts of CA (cyanoacrylate, “super glue”) may distort the QT.