

Phenolic Kraft Tubing

Bulletin #P-7

- Paramount Tube Phenolic tubing is produced from a dielectric Kraft paper that has been pre-impregnated with a special Phenolic resin and cured to the Class “B” stage. After forming, the tubes are baked to complete the resin cure. In this process, the Phenolic and the special adhesive coalesce to form a complete homogenous product. Phenolic tubing has excellent mechanical strength as well as good electrical properties. Strength for strength, Phenolic tubing provides a much thinner wall than Kraft alone. Phenolic tubing will also hold its shape better than Kraft; particularly under humid conditions. Phenolic tubing is excellent for fabrication purposes.
- Phenolic tubing is available as a 100% Phenolic construction or can be combined with dielectric Kraft to provide special properties and lower cost. Tubing made with a Phenolic construction is considerably stronger than Kraft alone, approximately 40% stronger. A 100% Phenolic constructed tube offers minimum cutting burrs. The best application is for relatively large tubes where rigidity is required.
- Phenolic tubing is available in the following shapes and sizes:

<u>Square and Rectangular</u>	<u>Round</u>
<p>Sizes: .130” sq. to 10.000” sq. .056” x .317” to 10.012” x 11.571 <i>Minimum Tolerance:</i> +/- .015”</p> <p>Wall thickness: .021” to .250” <i>Minimum Tolerance:</i> +/- .002”</p> <p>Lengths: up to 120” (10’) or cut to specific lengths <i>Tolerance:</i> +/- .010” on cut lengths .125 on stick lengths</p>	<p>Sizes: .127” to 12.250” ID <i>Minimum Tolerance:</i> +/- .015”</p> <p>Wall thickness: .014” to .250” <i>Minimum Tolerance:</i> +/- .005” 48” baked 12’ not baked</p> <p>Lengths: up to 240” (20’) or cut to specific lengths <i>Tolerance:</i> +/- .015” on cut lengths .250 on stick lengths</p>

- For more critical tolerances and information please inquire

Wall thickness and tolerances may vary depending on diameter and cutting method.

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Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.