|  | $P:(435) 865-7100$ |
| :---: | :---: |
| RCS Rocket Motor Components, Inc. | $F:(435) 865-7120$ |
| 2113 W 850 N, Cedar City, UT 84721 | customerservice@aerotech-rocketry.com |

## RCS XX Tubes

RCS XX paper phenolic convolute wrapped tubes are a mechanical grade composite with good electrical properties in moderate humidity conditions. It is frequently used in rocket motor liners and other applications.

## Mechanical Properties

Flexural Strength
Compressive Strength, Axial
Cohesion between layers

## Standard Test Specimen

| ISO 178 | $i d>100 \mathrm{~mm}$ |
| :---: | :---: |
| ISO 604 |  |
| EN 61212-2 5.3 | $\mathrm{id}<100 \mathrm{~mm}$ |


| IEC 243-1 | 3 mm wall thk <br> $\geq 3 \mathrm{~mm}$ wall thk | $8.3 \mathrm{kV} / \mathrm{mm}-210 \mathrm{Vpm}$ <br> IEC 243-1 <br> IEC 167 <br> IE | id $>8 \mathrm{~mm}$ and <br> or od $>10 \mathrm{~mm}$ |
| :---: | :---: | :---: | :---: |

## Physical and Thermal Properties

Temperature index @ 20,000 hrs (T.I)
Density
Water Absorption

| Standards: NEMA LI-1 | Grade XX |
| :--- | ---: |
| Mil-I-24768 | / 11 Type PBG |
| EN 61212-3-1: | PF CP 23 |
| Din 7735 | Hgw 2065 |

/ 11 Type PBG

Hgw 2065

Conditioning IEC 212:
1: $24 \mathrm{~h} @ 23^{\circ} \mathrm{C} \& 50 \% \mathrm{RH}$
2: $24 \mathrm{~h} @ 23^{\circ} \mathrm{C} \& 50 \% \mathrm{RH}+1 \mathrm{hr}$ in oil at $90^{\circ} \mathrm{C}$
3: $96 \mathrm{~h} @ 105^{\circ} \mathrm{C}+1 \mathrm{hr} @ 23^{\circ} \mathrm{C} \& 20 \% \mathrm{RH}$
4: $24 \mathrm{~h} @ 50^{\circ} \mathrm{C}+24 \mathrm{hr}$ in water at $23^{\circ} \mathrm{C}$

All information and suggestions pertaining to the properties and uses of the materials described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material for such use is the sole responsibility of the user. No warranty is expressed or implied, including, without limitation, warrant of merchantability or fitness for a particular purpose. Under no circumstances shall RCS Rocket Motor Components, Inc. be liable for incidental or consequential loss or damage.

