MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS

**INSULATING COMPONENTS FOR POWER SYSTEMS EQUIPMENT**

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# MATERIAL DATA SHEET

**Item:** Commercial Grade Vulcanized Fibre Sheets

**Description:** Commercial Grade Vulcanized Fibre is a proven performer, which possesses good physical and electrical properties. It is often used for its superior arc quenching capability. However, its unique combination of mechanical and electrical properties make it suitable for a wide range of applications.

| | | | English Units | SI Units |
|---|---|---|---|---|
| **Availability:** | Sheets: | Thickness: | Up to 3” | Up to 76 mm |
| | Fabricated Parts: | The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers | | |

| Key Characteristics | Test Method | Units - English (SI) | ASTM D-710 Req. | Typical Values |
|---|---|---|---|---|
| Standard Colors | -- | -- | Grey, Red, Black | Grey, Red, Black |
| Water Absorption | ASTM D-570 | % / 2hrs.<br>% / 24hrs. | < 52<br>< 66 | 52<br>66 |
| Flexural Strength MD<br>CMD | ASTM D-790 | ksi | >17.0<br>>13.0 | 20.0<br>13.0 |
| Chemical Properties Zinc Chloride<br>Ash<br>Silica Content | ASTM D-710 | % | 0.1 (All Colors)<br>1.5 (Grey, Black) 7 (Red)<br>0.3 (All Colors) | 1.0 (Grey, Black) 5.0 (Red)<br>0.05 (All Colors)<br>-- |
| Density Uncalendared<br>Calendared | ASTM D-792 | g/cc | 1.15<br>1.20 | 1.15<br>-- |
| Impact Strength (IZOD, Edgewise) MD<br>CMD | ASTM D-256 | ft.lbs./in. (J/m) | >1.6 (>85)<br>>1.2 (>64) | 2.3<br>1.8 |
| Tensile Strength (1/4” Diameter) | ASTM D-638 | psi | >8,000 | 13,500 |
| Compressive Strength (1/8” Wall) | ASTM D-695 | ksi | >12.0 | 35 |
| Dielectric Strength (1/16” Wall) | ASTM D-149 | V/mil | >150 | 175 |

All of the information, suggestions, and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.