



RSG509

TECHNICAL DATA BULLETIN

GRADE: RSG509

NEMA GRADE: --

U. L. LISTED: N

DESCRIPTION: RSG509 is a sheet ground rod produced from sheets of material that conform to NEMA G-5/G-9, ANSI/NEMA G-5/G-9 and MIL-I-24768/1 Type GME and MIL-I-24768/8 Type GMG. None of these specifications have any requirements for sheet ground rods.

THICKNESS TESTED: 0.500"

TYPICAL PROPERTIES

| GENERAL PHYSICAL PROPERTIES | UNITS | VALUE |
|--|-------------------|-----------------|
| Density (<i>ASTM D349 Section 28-30</i>) | g/cm ³ | 1.93 |
| Rockwell Hardness (<i>ASTM D785</i>) | M Scale | 108 |
| Water Absorption (<i>ASTM D349 Section 26-27</i>) <i>Condition D₁-24/23</i> | wt% | 0.26 |
| Flexural Strength (<i>ASTM D349 Section 13-19</i>) <i>Condition A</i> flatwise / edgewise | psi | 74,900 / 76,900 |
| Flexural Modulus (<i>ASTM D349 Section 13-19</i>) <i>Condition A</i> flatwise / edgewise | kpsi | 2,700 / 3,700 |
| Flexural Deflection (<i>ASTM D349 Section 13-19</i>) <i>Condition A</i> flatwise / edgewise | inches | -- / -- |
| Axial Tensile Strength (<i>ASTM D349 Section 7-12</i>) <i>Condition A</i> | psi | 47,300 |
| Axial Tensile Modulus (<i>ASTM D349 Section 7-12</i>) <i>Condition A</i> | kpsi | 4,000 |



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TYPICAL PROPERTIES (continued)

| THERMAL & ELECTRICAL PROPERTIES | UNITS | VALUE |
|---|--------|------------------------|
| Temperature Index Electrical / Mechanical | °C | --- / 140 ¹ |
| Flammability Rating (<i>UL Bulletin 94</i>) Condition A | Class | V-0 |
| Coefficient of Thermal Expansion (CTE) (<i>IPC-TM-650 2.4.24</i>) edgewise x-axis / y-axis / z-axis | ppm/°C | 47.1 / -3.00 / 25.87 |

¹ NEMA LI-6: This temperature is a recommendation only and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service or, preferably our web site, www.norplex-micarta.com, to determine if information is most current.

Specification writers: Contact Norplex-Micarta for specification values before submission.