

G11 Molded Rod

TECHNICAL DATA BULLETIN

NEMA GRADE: G-11 Type

U.L. LISTED: N

DESCRIPTION: Rolled and Molded Rods made from a glass fabric with a high temperature epoxy resin system. G-11 rods are not recognized by NEMA; however, they are recognized by the IEC Standard 61212; grade EP-GC-22. This material has equivalent electrical properties to G-10 rods, but with higher mechanical strength at elevated temperatures. Electrical properties are maintained in high humidity conditions. is not flame resistant.

TYPICAL PROPERTIES

| | UNITS | VALUE ¹ | | |
|--------------------------------|-------------------------|--------------------|-----------|--|
| | | Diameter Tested | | |
| | | | 0.500" | |
| PHYSICAL PROPERTIES | | | | |
| Specific Gravity | - | | 1.85 | |
| Rockwell Hardness | M Scale | | 110 | |
| Moisture Absorption | Condition A | % | 0.08 | |
| Flexural Strength | Condition A | psi | 85,300 | |
| | Condition T155 | psi | 75,800 | |
| Tensile Strength | Condition A | psi | 55,900 | |
| Compressive Strength | Condition A | psi | 73,600 | |
| THERMAL PROPERTIES | | | | |
| Temperature Index ² | Electrical / Mechanical | °C | 170 / 180 | |
| Flammability Rtg. (UL 94) | Condition A | Class | HB | |
| ELECTRICAL PROPERTIES | | | | |
| Dissipation Factor | Condition A | - | 0.004 | |
| Permittivity | Condition A | - | 4.30 | |
| Electric Strength | Condition A | Volts/mil | 134 | |

¹ All testing performed to ASTM D-349 unless otherwise indicated.

² 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".