

Hippe PF GC 21 Woven Glass Cloth Reinforced Phenolic Resin - Round, Rolled Tube

Category: Polymer, Thermoset, Phenolic, Phenolic, Novolac, Glass Filled

Material Notes:

Used in mechanical, electrical and electronic applications. Very high mechanical strength at moderate temperatures. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PF-GC-21-Woven-Glass-Cloth-Reinforced-Phenolic-Resin-Round-Rolled-Tube.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------------|------------------|----------------|
| Specific Gravity | 1.50 - 1.80 g/cc | 1.50 - 1.80 g/cc | IEC 1212-2 7.2 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--------------------|---------------------|--|
| Flexural Strength | >= 140 MPa | >= 20300 psi | Perpendicular to laminations; IEC 1212-2 4.1 |
| | @Diameter >=100 mm | @Diameter >=3.94 in | |
| Compressive Strength | >= 120 MPa | >= 17400 psi | Axial; IEC 1212-2 4.2 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--|---|---|
| Insulation Resistance | >= 2.00e+7 ohm | >= 2.00e+7 ohm | After immercian in water: IEC 1212.2 |
| | @Diameter 8.00 - 10.0 mm | @Diameter 0.315 - 0.394 in | After immersion in water; IEC 1212-2 5.2 |
| | <= 6.0 | <= 6.0 | |
| Dielectric Constant | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | IEC 1212-2 5.3 |
| Dielectric Breakdown | >= 15000 V | >= 15000 V | Stop by stop tost in ail parallel to |
| | @Temperature 90.0 °C, Time 20.0 sec | @Temperature 194 °F, Time 0.00556 hour | Step-by-step test, In oil, parallel to laminations; IEC 1212-25.1 |
| | >= 15000 V | >= 15000 V | Proof test in ail navallel to |
| | @Temperature 90.0 °C, Time 60.0 sec | @Temperature 194 °F, Time 0.0167 hour | Proof test, In oil, parallel to laminations; IEC 1212-25.1 |
| Dissipation Factor | <= 0.040 | <= 0.040 | |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | IEC 1212-2 5.3 |

| Descriptive Properties | Value | Comments |
|-------------------------|-----------|---|
| Cohesion between layers | > 200 MPa | IEC 1212-2 4.3, Internal diameter <100 mm |
| | | |



| Descriptive Properties | Value | EC 1212-27.1 Comments |
|------------------------|------------------------|--------------------------|
| Water Absorption | < 3 mg/cm ² | IEC 1212-2 7.1 |

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