

## Hippe PF CC 21 Woven Cotton Cloth Reinforced Phenolic Resin - Round, Rolled Tube

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

### Material Notes:

Used in mechanical and electrical applications. Fine weave (>30 threads per cm). Information provided by Hippe.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hippe-PF-CC-21-Woven-Cotton-Cloth-Reinforced-Phenolic-Resin-Round-Rolled-Tube.php](http://www.lookpolymers.com/polymer_Hippe-PF-CC-21-Woven-Cotton-Cloth-Reinforced-Phenolic-Resin-Round-Rolled-Tube.php)

| Physical Properties | Metric           | English          | Comments       |
|---------------------|------------------|------------------|----------------|
| Specific Gravity    | 1.15 - 1.35 g/cc | 1.15 - 1.35 g/cc | IEC 1212-2 7.2 |

| Mechanical Properties | Metric                            | English                             | Comments                                     |
|-----------------------|-----------------------------------|-------------------------------------|----------------------------------------------|
| Flexural Strength     | >= 90.0 MPa<br>@Diameter >=100 mm | >= 13100 psi<br>@Diameter >=3.94 in | Perpendicular to laminations; IEC 1212-2 4.1 |
| Compressive Strength  | >= 120 MPa                        | >= 17400 psi                        | Axial; IEC 1212-2 4.2                        |

| Electrical Properties | Metric                                            | English                                              | Comments                                                            |
|-----------------------|---------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|
| Insulation Resistance | >= 2.00e+7 ohm<br>@Diameter 8.00 - 10.0 mm        | >= 2.00e+7 ohm<br>@Diameter 0.315 - 0.394 in         | After immersion in water; IEC 1212-2 5.2                            |
| Dielectric Breakdown  | >= 25000 V<br>@Temperature 90.0 °C, Time 20.0 sec | >= 25000 V<br>@Temperature 194 °F, Time 0.00556 hour | Step -by-step test, In oil, parallel to laminations; IEC 1212-2 5.1 |
|                       | >= 25000 V<br>@Temperature 90.0 °C, Time 60.0 sec | >= 25000 V<br>@Temperature 194 °F, Time 0.0167 hour  | Proof test, In oil, parallel to laminations; IEC 1212-2 5.1         |

| Descriptive Properties  | Value      | Comments                                  |
|-------------------------|------------|-------------------------------------------|
| Cohesion between layers | > 90 MPa   | IEC 1212-2 4.3, Internal diameter <100 mm |
| Thermal Endurance       | 120 T.I.   | IEC 1212-2 7.1                            |
| Water Absorption        | < 5 mg/cm² | IEC 1212-2 7.1                            |

## Contact Songhan Plastic Technology Co.,Ltd.

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