

## Hippe PF CP 203 Cellulose Paper Reinforced Phenolic Resin - Sheet

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

### Material Notes:

Used in mechanical and electrical applications. Good electrical properties under normal humidity. Also available in hot-punching versions. Information provided by Hippe.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Hippe-PF-CP-203-Cellulose-Paper-Reinforced-Phenolic-Resin-Sheet.php](http://www.lookpolymers.com/polymer_Hippe-PF-CP-203-Cellulose-Paper-Reinforced-Phenolic-Resin-Sheet.php)

| Physical Properties | Metric           | English          | Comments       |
|---------------------|------------------|------------------|----------------|
| Specific Gravity    | 1.30 - 1.40 g/cc | 1.30 - 1.40 g/cc | IEC 1212-2 8.1 |

| Mechanical Properties | Metric      | English      | Comments                                     |
|-----------------------|-------------|--------------|--|
| Tensile Strength      | >= 100 MPa  | >= 14500 psi | IEC 1212-2 5.7                               |
| Flexural Strength     | >= 120 MPa  | >= 17400 psi | Perpendicular to laminations; IEC 1212-2 5.1 |
| Flexural Modulus      | >= 7.00 GPa | >= 1020 ksi  | IEC 1212-2 5.2                               |
| Compressive Strength  | >= 250 MPa  | >= 36300 psi | Perpendicular to laminations; IEC 1212-2 5.3 |
| Shear Strength        | >= 10.0 MPa | >= 1450 psi  | Parallel to laminations; IEC 1212-2 5.6      |

| Electrical Properties      | Metric                             | English                           | Comments  |
|----------------------------|------------------------------------|-----------------------------------|---|
| Insulation Resistance      | >= 5.00e+7 ohm                     | >= 5.00e+7 ohm                    | After immersion in water; IEC 1212-2 6.3        |
| Dielectric Constant        | <= 5.5<br>@Frequency 1.00e+6 Hz    | <= 5.5<br>@Frequency 1.00e+6 Hz   | IEC 1212-2 6.2                                  |
| Dielectric Breakdown       | >= 20000 V<br>@Temperature 90.0 °C | >= 20000 V<br>@Temperature 194 °F | In oil, parallel to laminations; IEC 1212-2 6.2 |
| Dissipation Factor         | <= 0.050<br>@Frequency 1.00e+6 Hz  | <= 0.050<br>@Frequency 1.00e+6 Hz | IEC 1212-2 6.2                                  |
| Comparative Tracking Index | >= 100 V                           | >= 100 V                          | IEC 1212-2 6.4                                  |

| Descriptive Properties | Value    | Comments                                   |
|------------------------|----------|--|
| Thermal Endurance      | 105 T.I. | IEC 1212-2 7.1                             |
| Water Absorption       | < 320 mg | IEC 1212-2 8.2; Test piece 50 x 50 x 10 mm |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
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## Contact Songhan Plastic Technology Co.,Ltd.

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