

### GPO-3 Laminated Sheet Technical Data

| No. | Testing Item                                           |              | Measurement         | Requirement | Result               | Testing Method         |
|-----|--------------------------------------------------------|--------------|---------------------|-------------|----------------------|------------------------|
| 1   | Tensile Strength                                       |              | MPa                 |             | 130                  | ASTM D638-14           |
| 2   | Tensile Modulus of Elasticity                          |              | MPa                 | =====       | 9.07x10 <sup>3</sup> |                        |
| 3   | Flexural Strength                                      |              | MPa                 | =====       | 230                  | ASTM D790-17           |
| 4   | Vertical Compression Strength                          |              | MPa                 | =====       | 306                  | ASTM D695-15           |
| 5   | Vertical Electrical Strength(Rapid Rise in normal oil) |              | MV/m                | =====       | 23.7                 | ASTM D149-09<br>(2013) |
| 6   | Vertical Flashover Voltage (Rapid Rise in the air)     |              | KV                  | =====       | 38.1                 |                        |
| 7   | Parallel Puncture Voltage(Rapid Rise in normal oil)    |              | KV                  | =====       | 81.0                 |                        |
| 8   | Arc Resistance                                         |              | S                   | =====       | 182                  | ASTM D495-14           |
| 9   | Comparative Tracking Index                             |              | =====               | =====       | CTI 600              | ASTM D3638-12          |
| 10  | Insulation Resistance                                  | Normal       | $\Omega$            | =====       | 5.7x10 <sup>13</sup> | ASTM D257-14           |
|     |                                                        | 24H in Water |                     |             | 1.7x10 <sup>12</sup> |                        |
| 11  | Flammability                                           |              | Grade               | =====       | V-0                  | UL 94:20065            |
| 12  | Oxygen Index                                           |              | %                   |             | 32.3                 | ASTM D2863-10          |
| 13  | Water Absorption                                       |              | %                   | =====       | 0.27                 | ASTM D570-98           |
| 14  | Density                                                |              | g/cm <sup>3</sup>   |             | 1.74                 | ASTM D792-13           |
| 15  | Coefficient of Thermal Expansion(20℃-100℃) (Parallel)  |              | 10 <sup>-6</sup> /℃ | =====       | 23.5                 | ASTM D696-16           |
| 16  | Thermal Conductivity(60℃)                              |              | W/m • K             |             | 0.605                | ASTM C518-17           |
| 17  | Heat Distortion Temperature                            |              | ℃                   | =====       | >240                 | ISO 75-1:2013          |
| 18  | Flammability                                           |              | Grade               | =====       | V-0                  | UL 94-2013             |