



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## Durapol® F200

### NEMA GPO-3 Glass Polyester Laminate

Durapol® F200 is a UL certified (QMF22.E86354) glass polyester laminate that offers excellent track, arc, and flame resistance. Its high strength properties and good thermal performance make it an excellent choice for structural components in high-voltage applications. Standard colors include red, cream, and light grey. Other colors are available on request.

UP GM 203 ACCORDING TO IEC 60893-3-5 | CORRESPONDS TO GPO-3 ANSI/NEMA IM 60000-2021 | CERTIFIED ACC. TO EN 45545-2:2020-02, R22/R23

|            |                                             | ISO/IEC          |        |                     |
|------------|---------------------------------------------|------------------|--------|---------------------|
| PROPERTIES |                                             | Test Method      | Units  | Typical Values      |
| PHYSICAL   | Density                                     | ISO 1183         | g/cm³  | 1.8 <sup>±0.1</sup> |
|            | Water Absorption: T = 4 mm                  | ISO 62, Proc. 1  | mg     | <45                 |
|            |                                             |                  |        |                     |
|            |                                             |                  |        |                     |
| THERMAL    | Temperature Index                           | IEC 60216        | °C     | 155                 |
|            | Flammability                                | UL 94            | V-0    | ≥3 mm               |
|            |                                             |                  |        |                     |
|            |                                             |                  |        |                     |
| MECHANICAL | Flexural Strength                           | ISO 178          | MPa    | 170                 |
|            | Modulus of Elasticity                       | ISO 178          | MPa    | 10,000              |
|            | Flexural Strength at 130°C                  | ISO 178          | MPa    | 70                  |
|            | Charpy Impact Strength: Parallel            | ISO 179          | kJ/m²  | 75                  |
|            | Compressive Strength: Parallel at 23°C      | ISO 604          | MPa    | 160                 |
|            | Compressive Strength: Perpendicular at 23°C | ISO 604          | MPa    | 270                 |
|            | Tensile Strength: Parallel at 23°C          | ISO 527          | MPa    | 70                  |
| ELECTRICAL | Surface Resistance                          | IEC 62631-3-2    | Ohm    | 1.0E+12             |
|            | Dielectric Strength: Perpendicular          | IEC 60243-1      | kV/mm  | 20                  |
|            | Permittivity at 1 Mhz                       | VDE 0303, Part 4 |        | 4.5                 |
|            | Dissipation Factor at 1 Mhz                 | VDE 0303, Part 4 |        | 0.01                |
|            | Volume Resistivity                          | IEC 60893        | Ohm.cm | 1.0E+14             |
|            | Comparative Tracking Index                  | IEC 60112        |        | 500                 |
|            |                                             |                  |        |                     |

#### SHEET AVAILABILITY (SI)

##### SHEET SIZE (mm)

• 2,020 x 1,250 (+2/-3 mm)

##### THICKNESS (mm)

• 3 - 60

**COMMON APPLICATIONS:** Switchboards | LV- And HV-Breakers | Phase Barriers  
Switchboard Bottom Plates | Arc Chambers | Connection Supports Protection Panels  
Insulation Carriers | Cable Clamps | Bus Bars Supports | Power Electronics

The Gund Company fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.