



Innovations in Fluid Sealing



## TECHNICAL DATA SHEET

### INFLON GRAPHITE FILLED PTFE SHEET INMARCO TYPE 601

#### Description:

**TYPE 601** is a Virgin PTFE with 15% Graphite. It has excellent wear properties and specially used in dynamic applications. Its crystalline graphite sacrifices itself to facilitate lubrication.

#### Operational Parameters:

| Properties                                      | Test Method | Unit                        | Values           |        |
|---|-------------|-----------------------------|------------------|--------|
| <b>MECHANICAL</b>                               |             |                             |                  |        |
| Density   | ASTM D 792  | gm/cc                       | 2.10 – 2.16      |        |
| Tensile Strength                                | ASTM D 638  | kgf/cm <sup>2</sup>         | 150 – 200        |        |
| Elongation @ Break                              | ASTM D 638  | %                           | 150 – 250        |        |
| Compressive Strength                            | ASTM D 695  | kgf/cm <sup>2</sup>         | 65 – 75          |        |
| Compressive Modulus                             | ASTM D 695  | kgf/cm <sup>2</sup>         | 7500 – 8000      |        |
| Hardness  | ASTM D 2240 | Shore D                     | 58 – 63          |        |
| Continuous service temp. @ atmospheric pressure | ASTM D 648  | °C                          | -250 TO +260     |        |
| <b>THERMAL</b>                                  |             |                             |                  |        |
| Thermal Conductivity (max.)                     | ASTM D 5930 | 10 <sup>-1</sup> cal cm S°C | 14               |        |
| Linear Thermal Expansion (max.)                 | ASTM D 696  | %                           | Axial            | Radial |
| 30 – 150°C                                      |             |                             | 1.3              | 1.0    |
| 30 – 200°C                                      |             |                             | 2.0              | 1.7    |
| 30 – 250°C                                      |             |                             | 3                | 2.5    |
| <b>ELECTRICAL</b>                               |             |                             |                  |        |
| Dielectric Strength                             | ASTM D 149  | Kv/mm                       | 1 – 2            |        |
| Volume Resistivity                              | ASTM D 257  | ohm cm                      | >10 <sup>3</sup> |        |
| Surface resistivity                             | ASTM D 258  | ohm                         | >10 <sup>6</sup> |        |
| Water Absorption (max.)                         | ASTM D 570  | %                           | 0                |        |
| <b>CHEMICAL</b>                                 |             |                             |                  |        |
| Permeability                                    | ASTM D 543  | %                           | 0.01             |        |

#### Recommendations:

- ✚ Excellent chemical resistance.
- ✚ Excellent flexural properties.
- ✚ Outstanding electrical properties.

#### Availability:

Sheet size : 1000mm x 1000mm  
: 1500mm x 1500mm

Thickness : 0.5mm, 1mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm

All information and recommendations given in this technical data sheet are correct to the best of our knowledge. However, in view of the wide variety of application and operating conditions one cannot draw the final conclusion in all application cases regarding the behavior of compounds. The above information can only serve as a guideline.

#### INMARCO FZC

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