

**TECHNICAL DATASHEET**

# Fluorolon PTFE/Glass Alloy 1015

**Product Description:**

Fluorolon PTFE 1015 is a high molecular weight polymer reinforced with 15% glass fibers, providing enhanced mechanical properties. The glass increases compressive strength and reduces cold flow. Fluorolon 1015 is less abrasive than our 1025 grade.

**Applications:** Seals, valve Seats, Bushings, Insulators

**Product Properties:**

- Increased compressive strength
- Improved hardness
- Excellent insulating properties
- Chemical resistant
- Increased resistance to creep

|            | Property                            | Method       | Units       | Specification          |
|------------|-------------------------------------|--------------|-------------|------------------------|
| Physical   | Color                               | White        | --          | White                  |
|            | Specific Gravity                    | ASTM D792    | gr/cc       | 2.16-2.21              |
|            | Water Absorption                    | ASTM D570    | %           | <0.001                 |
|            | Flammability                        | UL 94        |             | V-0                    |
| Mechanical | Tensile Strength                    | ASTM D638    | psi         | 2100                   |
|            | Elongation                          | ASTM D638    | %           | 150                    |
|            | Hardness                            | ASTM D1706   | Durometer D | 58                     |
|            | Compressive strength                | ASTM D695-57 | psi         | 1600                   |
|            | Coefficient of Friction             | ASTM D3702   | F           | 0.21                   |
|            | Deformation 78 F@<br>2000psi/24h    | ASTM D621    | %           | 4-9                    |
| Thermal    | Coefficient of Thermal<br>Expansion | ASTM D696    | in/in/°F    | 3.8 x 10 <sup>-5</sup> |
|            | Max Service Temp Continuous         |              | *F          | +500                   |
|            | Minimum Service Temp<br>Continuous  |              | *F          | -425                   |
| Electrical | Dielectric Constant                 | ASTM D150    | -           | 2.5                    |
|            | Dielectric Strength                 | ASTM D257    | volts       | -                      |