

XIFLON PFA SHEETS

XIFLON PFA SHEET is a semi-finished product manufactured from high-performance **XIFLON** perfluoroalkoxy (PFA) resin.

XIFLON PFA SHEET is a semi-finished product from **XIFLON** offering outstanding chemical and UV resistance, as well as excellent thermal stability in a broad service temperature range from -200 °C to +260 °C. It combines high tensile strength, exceptional surface smoothness, and superior dielectric properties, making it ideal for use in chemical processing, semiconductor manufacturing, and electrical insulating parts in demanding environments.

XIFLON PFA SHEET is extruded under strict quality control conditions and has a surface with a smooth finish. The sheet is free from contaminants such as metal particles and inclusions.

Characteristic properties

| Properties | Value | Unit | Method |
|---------------------------|-----------|---------|------------|
| Specific gravity | 2.12-2.17 | - | ASTM D792 |
| Tensile Strength at Break | ≥ 25 | MPa | ASTM D638 |
| Elongation at Break | ≥ 200 | % | ASTM D638 |
| Hardness | ≥ 60 | Shore D | ASTM D2240 |
| Melting Point | 300±10 | °C | ASTM D3418 |
| Limiting Oxygen Index | > 95 | % | ASTM D2863 |

Note: Characteristics are based on controlled lab tests at XiFlon Shanghai Co., Ltd. Actual results may vary by test conditions.

Applications

XIFLON PFA SHEET is ideal for precision machining into custom components where exceptional chemical resistance and thermal stability are required. Typical applications include the fabrication of seals, valve components, pump parts, insulators, and lining elements used in the chemical processing, semiconductor, pharmaceutical, and food industries. Due to their outstanding non-stick properties, high purity, and resistance to aggressive chemicals up to 260 °C, PFA sheets are particularly suited for environments where both mechanical integrity and long-term reliability are critical.



XIFLON PFA SHEETS

Standard Dimensions

| Thickness, mm | Width, mm | Length, mm | Tolerance, mm | | |
|---------------|-----------|------------|---------------|---------|---------|
| | | | Thickness | Width | Length |
| 2 | 1500 | ≤ 2000 | 0 / +0.1 | 0 / +10 | 0 / +10 |
| 3 | | | | | |
| 4 | | | 0 / +0.15 | | |
| 5 | | | | | |
| 6 | | | | | |
| 8 | | | | | |
| 10 | 610 | ≤ 1000 | 0 / +2 | 0 / +5 | 0 / +20 |
| 15 | | | | | |
| 20 | | | | | |
| 30 | | | | | |
| 35 | | | | | |
| 40 | | | | | |
| 45 | | | | | |
| 50 | | | | | |
| 55 | | | | | |
| 60 | | | | | |
| 65 | | | | | |
| 70 | | | | | |
| 75 | | | | | |
| 80 | | | | | |

CUSTOM SIZES are available upon request to meet specific application specifications. Length is supplied according to customer requirements

Storage

XIFLON PFA SHEET should be stored in a clean, dry, and cool environment, away from direct sunlight, heat sources, and strong oxidizing agents. For best results, keep them in their original packaging and allow sufficient conditioning time at room temperature before machining.

For more information, please contact XiFlon Shanghai Co., Ltd.