

## SermaShield™ 300 PFA Powder Coating

### Description

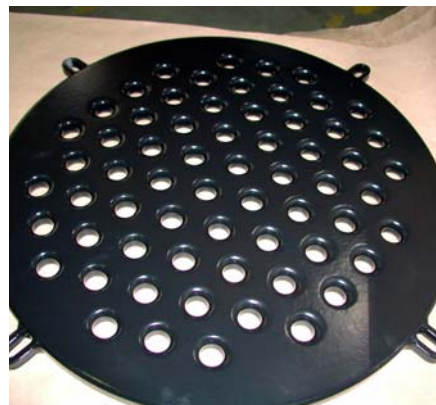
SermaShield 300 PFA is a seamless fluoropolymer coating system designed to protect processing equipment from chemical attack and provide abrasion resistance and thermal shock resistance in continuous operating temperatures up to 450°F (232°C). The coating can be used with full vacuum rating over the entire pH range. SermaShield 300 PFA also exhibits exceptional nonstick and impact resistant properties.

### Advantages:

- Operating temperature range from -110°F to 450°F (-79° to 232°C)
- Full vacuum rating over the entire pH range
- Pinhole free
- Compatible with all substrates except some alloys with high copper content
- Field repairable
- Excellent corrosion resistance
- Complex geometries are easily coated
- Available in thicknesses from 15-40 mils (0.375 - 1.0mm)
- Compliant per FDA regulations 21 CFR
- Non wetting, nonstick surface



*4" valve used in harsh chemical environment*



*24" Diameter column support plate*

### Applications

- Agitators
- Baffles
- Bellows
- Centrifuges
- Columns
- Dip Tubes
- Filter Housings
- Gas Cylinders
- Heat Exchangers
- Probes
- Pumps & Housings
- Reactors
- Storage Vessels
- Tanks
- Thermowells
- Valves

Visit us online: [www.sermatech.com](http://www.sermatech.com)

#### Sermatech Texas

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#### Sales

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## SermaShield™ 300 PFA Powder Coating



PROPERTY	METHOD	SERMASHIELD
Tensile Strength (MPa) at 23°C (73°F), Psi	ASTM D638	27 - 35
Elongation, % at 23°C (73°F)	ASTM D638	280 - 400
Flexural Modulus (MPa)	ASTM D790	647 - 686
Specific Gravity	ASTM D792	2.12-2.17
Melting Point, °C (°F)	ASTM D3159	302-310 (576 - 590)
Maximum Use temp., °C (°F) varies with chemical exposure		260 (500)
Hardness, Shore D	ASTM D636	D60
Coefficient of Thermal Expansion (linear) 23° - 60°C	ASTM D696	12 x 10 <sup>-5</sup>

Note:  
The suitability of SermaShield 300 PFA for use is dependent upon process environment.

Please contact us to evaluate your process environment.

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