

CHESTERTON® 184 *PRODUCT DATA SHEET*

1.0 SCOPE

- 1.1 This specification describes the requirements for 184 Sheet, a 100% virgin expanded PTFE.
- 1.2 184 Sheet is applicable for use against most chemicals except elemental fluorine and molten alkali metals.
- 1.3 184 Sheet is applicable for use at temperatures from -450°F to 600°F (-267°C to 315°C) and pressures from vacuum to 3000 psi.

2.0 CONTENT AND CONSTRUCTION

- 2.1 Typical Content % by weight
 - 2.1.1 100% Virgin PTFE
- 2.2 Construction
 - 2.2.1 Expanded PTFE with micro-fibrillated internal structure.

3.0 PHYSICAL, THERMAL, AND CHEMICAL CHARACTERISTICS

- 3.1 Physical Characteristics
 - 3.1.1 Operating Parameters: Temperature: -450°F to 600°F (-267°C to 315°C) Pressure: vacuum to 3000 psi
 - 3.1.2 Tensile Strength: 3000 psi (compressed 6800 psi)
 - 3.1.3 Specific Gravity: 0.45 to 0.55 (compressed 2.0 to 2.1)
 - 3.1.4 Thermal Conductivity: 0.2 BTU/hr. ft. @0°C
 - 3.1.5 Oxygen Index: 94.5
 - 3.1.6 Specific Heat: 0.23 BTU/LB-f°
 - 3.1.7 Color: White
- 3.2 Thermal Characteristics
 - 3.2.1 Gel Point Approx.: 620.6°F
 - 3.2.2 Minimum Temperature: -450°F (-267°C)
 - 3.2.3 Maximum Temperature: +600°F (315°C)
- 3.3 Chemical Properties
 - 3.3.1 Chemical Incompatibility: elemental fluorine (F₂) and molten alkali metals
 - 3.3.2 pH Range (media): 0 to 14

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