



TECHNICAL DATA SHEET

FOPAT Production Inc
2411 Cross Pointe Drive
Miamisburg, OH 45342
1-888-99FOPAT
www.fopat.com

PRODUCTION DESCRIPTION:

F101 is a water blown polyurethane foam made of confidential polymeric blends. All substances used to manufacture F101 are listed on the TSCA inventory. No halogen based flame retardants or blowing agents (CFC's or HCFC's) are used in the manufacture of this foam. (From MSDS)

PHYSICAL & CHEMICAL PROPERTIES:

Form: Cellular Solid
Flash Point (+600F,+316C); will burn in presence of sufficient heat and oxygen
Specific Gravity 0.10 to 0.60
Water Solubility: Not soluble
Density: 5-25 pcf (but can be tailored to meet customer application)
Compressive Strength: 250 psi
Tensile Strength: 300 psi

STABILITY & REACTIVITY:

This is a stable material. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Tests conducted according to AITM 3.0005 show under the Flaming and Non-Flaming conditions gas levels well below the max accepted levels. The average concentration (in parts per million, ppm) of the following gas components of smoke did not exceed the limits listed in the ABD 00031:

Hydrogen Fluoride HF	100 ppm vol
Hydrogen Chloride HCl	150 ppm vol
Hydrogen Cyanide HCN	150 ppm vol
Sulfur Dioxide SO ₂ /H ₂ S	100 ppm vol
Nitrous Gases NO/NO	100 ppm vol
Carbon Monoxide CO	1000 ppm vol

THERMOMECHANICAL ANALYSIS:

Coefficient Of Thermal Expansion (CTE):
(35 to 90C) = 73.5 microns/m/C
(150 to 200C) = 51.87 microns/m/C

BURNOUT PROPERTIES:

Start Burn: 225C (437F)
Complete Burn: 1800F+; time and oxygen dependent
Ash Content after Burnout: 0.000% after 2 hrs @ 2000F