

# Any Foam

## INDIVIDUAL SPECIFICATION SHEET Class 0 Foam

**PYROSORB-S**, which is the basis of the product range, is open celled acoustic/thermal impregnated polyurethane foam. It was originally developed as safety critical foam. Acoustic performance is good and absorption coefficients are typical for a cellular material, but unusually high deadening performance is attributable to the high density of approximately 85 kgm<sup>3</sup>. The high mass helps to reduce vibration in metal enclosures hence drumming and noise breakout.

### FLAMMABILITY PROPERTIES

METHOD	RESULT
BS 476 Part 5	Non-Ignition
BS 476 Part 6	$I \leq 12, I_1 \leq 6$
BS 476 Part 7	Class "1"
BS 476 P6 & P7 Building Regulations	Class "O"
BS EN ISO 4589-3	No ignition, tested at 240°C, 300°C, 360°C and 380°C
UL94	V-0, 94-5V
BS6853:1987 App. B.5.3	$A_{0(max)} < 5$
NES 713	<3.0

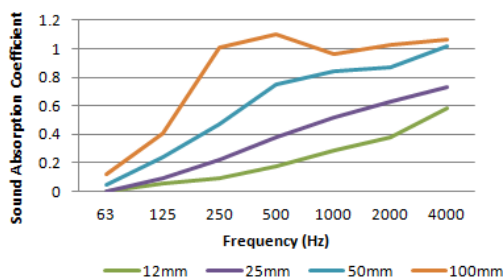
### PHYSICAL PROPERTIES

METHOD	RESULT
Density (Kg/m <sup>3</sup> )	75 – 100
Hardness (N)	120 – 180
Tensile Strength (Kpa)	>70
Elongation at Break (%)	>90%
Thermal Conductivity (W/mK)	0.048 – 0.051
Erosion Resistance	6000 ft/min
Working Temperature (°C)	-40 - ~+110
CFC Free	Yes

### ACOUSTIC PERFORMANCE OF PYROSORB-S

ASTM and BS EN 20354 (previously BS3638: 1963) are both standard tests for measuring absorption coefficients. ASTM C384 is a laboratory scale test measuring normal incidence coefficients. Both methods give an indication of the potential performance of the material under the test. Whilst the latter reverberation room method may prove more relevant in most practical situations, neither test can predict overall performance in a real application.

**Flat Absorption Coefficients: BS EN 20354**  
(Reverberation Room)



**Profiled Absorption Coefficients: BS EN 20354**  
(Reverberation Room)

