

## Extended Performance Under Environmental Pressures UL 94 HF-1

FXI acoustical solutions are engineered to perform multiple functions including sound absorption and vibration damping. FXI low-density foams are ideal for sound absorption while higher-density or lower permeability foams work well for damping. Complementing their acoustic capabilities, all FXI foams are moldable and meet various fire and performance requirements. Additionally, these acoustic technologies can withstand varying operating temperatures and offer insulation performance for different industry applications. FXI acoustical solutions provide efficiency, reliability, and predictability in high-stress environments and applications over time, while simplifying handling, manufacturing and assembly, to reduce overall costs for sound and vibration reduction solutions.

### Overview

Hyfonic™ is a combustion-modified polyether polyurethane foam developed to resist hydrolytic degradation and has excellent sound absorbing characteristics. Hyfonic™ has robust high and low temperature features capable of withstanding intermittent temperatures as high as 250 °F, and at -40 °F shows no evidence of cracking or tearing when bent around a mandrel equal in diameter to the foam thickness. Hyfonic™ meets standards such as Department of Transportation FMVSS-302 and Underwriters Laboratory UL 94 HF-1.

### Benefits

- Resists degradation in hot environments
- Hydrolytic Stability
- Resists certain chemicals and assailants
- Excellent sound absorption across audio spectrum

### Applications

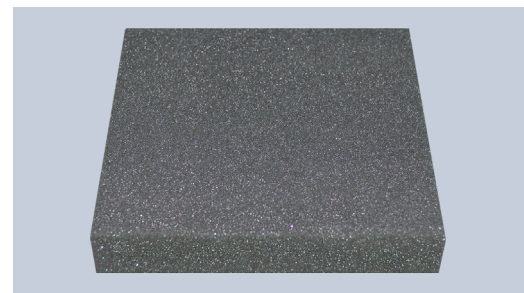
- Specified in Aerospace
- Industrial equipment enclosures
- Cabin Interiors (Class 8 Trucks)
- Home Healthcare Enclosures

### Quick Facts

Foam Code	Density lbs/ft3	Pore Size** ppi	Tensile psi	Tensile psi (activated)	IDF 25% psi	IDF 65% psi	Clickability	NRC	SAA	Thermal Properties	
										R Value m2k/W	K Factor W/mk
Hyfonic™	1.7	65	14	12	0.5	0.7	Fair - Good	0.45	0.50	0.574	0.04423

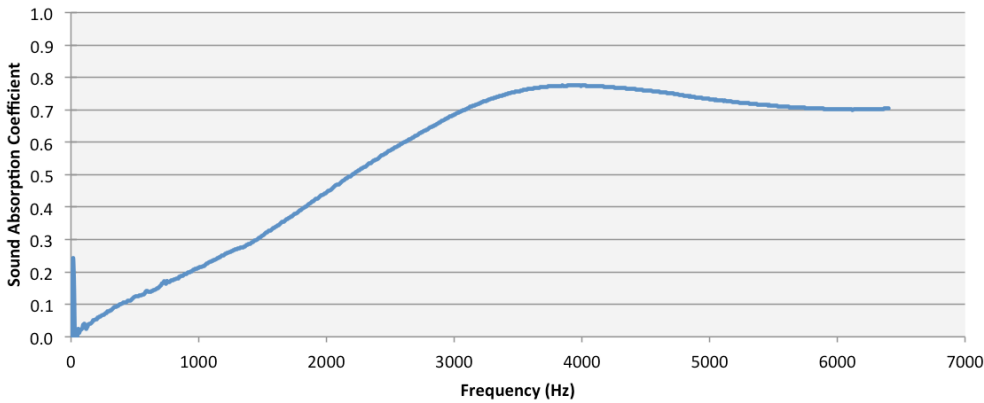
Test Procedure ASTM D-3574, C423 | \*\*Pore size is not determined by ASTM procedure.

\*Typical physicals not to be used for specification purposes. Please contact your account rep for specification information.

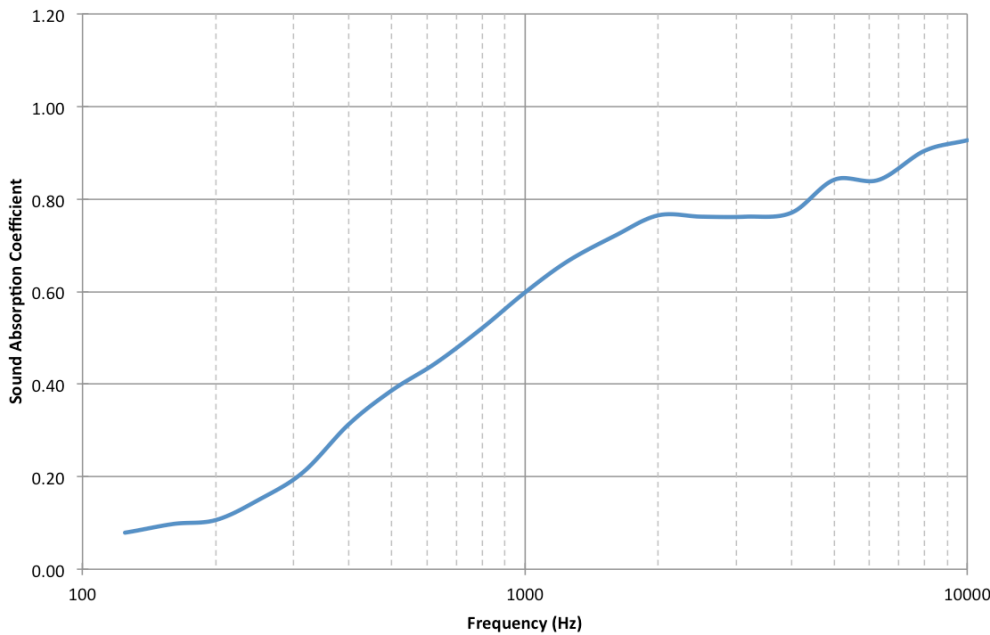


Flammability Performance
FR Test UL 94 HF-1
FAR 25.853 App. F Part 1 (a)(1)(i)
(a)(1)(ii)
DOT MVSS 302

ASTM E-1050 @ 20mm Thickness



Random Incidence Sound Absorption Coefficients ASTM C423  
@ 20mm Thickness



About FXI:

FXI is a leading producer of foam innovation in the Bedding, Furniture, Industrial, Home & Office, Healthcare and Transportation Markets. Our focus is on finding tailored solutions for our customers that are driven by consumer insights and industry trends. Our products include finished goods, sub-assemblies, services and raw materials for OEMs, fabricators and retailers. You will find FXI's foam innovations inside, around and under yourself in countless applications. We protect automobile passengers on the highway, help consumers sleep sounder and furniture manufacturers create comfort. We provide for sharper images in digital printers and help consumers keep their homes clean. We provide critical components for filters, gaskets and seals in everything from blood oxygenators to computer disk drives. Everywhere foam goes; FXI's innovations lead the way.

**IMPORTANT NOTICE REGARDING FLAMMABILITY**— All polyurethane foams including combustion modied foams will burn and generate smoke and gases. Performance conditions and corresponding data refer to typical performance in specic tests, such as UL-94 and MVSS-302, and should not be construed to imply the behavior of this or any other product under other re conditions. All data regarding these products were obtained using specic test methods under controlled laboratory conditions intended to measure performance against specifications. Due to the great number and variety of applications for which FXI products are purchased, FXI does not recommend specic applications or assume any responsibility for use results obtained or suitability for specic applications. FXI warrants its products only to direct buyers. (See FXI's Standard Terms of Sales for FXI's warranty.) IN NO EVENT SHALL FXI BE RESPONSIBLE FOR ANY CLAIM IN EXCESS OF FXI'S SALE PRICE OF THE PRODUCT TO WHICH THE CLAIM RELATES.