



# AEROFOAM INDUSTRIES

*“Redefining comfort one seat at a time”*

## AFI31

**AFI31 is a combustion modified high resilient polyurethane foam. High Resilience foam is an open cell, flexible polyurethane foam that has a less uniform cellular structure.**

Polyurethane foam is made by a chemical reaction that creates a polymer surrounding by air cells. The layout and organization of the cell structure with its more irregular structure creates much greater structural integrity and makes the foam less prone to shear and compression. High resilient foams have much greater bounce, recovery and recover from compression much quicker. They typically last much longer than conventional foams and do not suffer as much height loss as conventional foams.

AFI31 passes the requirements of FAR 25.853a, 12 second vertical burn but does require an additional fireblocking layer to meet FAR 25.853c seat oil burn test.

AFI31 is a light medium density HR foam and is an effective foam for use as a bridge from support to comfort layers, commonly used for bolsters.

PROPERTIES	ISO Standard	ASTM Standard	Imperial	Metric
Density	ISO 845	ASTM D3574	2.5 - 2.8 lbs/ft <sup>2</sup>	40.00 - 41.1 kg/m <sup>3</sup>
Hardness (IFD)	ISO 2439:2008	ASTM D3574	31 lbs - 37 lbs	138 - 164.7 N
Sag Factor		ASTM D3574	2.4 min	2.4 min
Tensile strength	ISO 7214:1998	ASTM D3574	68.9 PSI	10.00 (kpa)
Elongation	ISO 7214:1998	ASTM D3574	125 (% min)	125 (% min)
Resilience		ASTM D3574	45 (% min)	45 (% min)

FLAMMABILITY	Standard	Result
12 Second Vertical Burn	CFR/CS 25.853 app F, part 1a(1)(ii)	Pass
Seat Oil Burner	CFR/CS 25.853 app F part 2	With fireblocker

COLOR
Yellow

