



AEROFOAM INDUSTRIES

“Redefining comfort one seat at a time”

AF51-290

AF51-290 is a medium density polyurethane based, graphite impregnated, flame retardant foam, suitable for use without fireblocker in commercial aerospace interiors.

The high resilient nature of this foam ensures a prolonged life in service and is significantly less prone to shearing or dusting than conventional foams. AF42-95 meets the requirements of CFR 25.853 part 1, the 12 second vertical burn and CFR 25.853 part 2, the seat oil burn or Kerosene burn test as standard without needing a fireblocking layer.

All of our AF range of firehard foams are treated with UltraFresh™, for antimicrobial protection throughout its lifespan.

AF51-290 is commonly used in seat backs and as a support layer in bottom cushions. Its comparative lightweight compared to other cushions with a 55 ILD makes it a consistent choice for seat cushions.

PROPERTIES	ISO Standard	ASTM Standard	Imperial	Metric
Density	ISO 845	ASTM D3574	3.00 - 3.4 lbs/ft ²	48.06 - 51 - 54.46 kg/m ³
Hardness (IFD)	ISO 2439:2008	ASTM D3574	62 lbs - 77 lbs	275.90 - 290 - 342.65 N
Sag Factor		ASTM D3574	2.4 min	2.4 min
Tear Strength	ISO 8067:1995	ASTM D3574	1.7 lbs/in	0.19 n/m
Tensile strength	ISO 7214:1998	ASTM D3574	18 PSI	124.11 (kpa)
Elongation	ISO 7214:1998	ASTM D3574	125 (% min)	125 (% min)
Resilience		ASTM D3574	35 (% min)	35 (% min)
Typical mass per seat cushion		16" x 16" x 4"	1 lbs 8 oz	0.68 kg

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	Pass

COLOR

Dark Green

