



“Redefining comfort one seat at a time”

AF01010004 Aerofoam's Graphite Comfort Series

AF01010004 is a mid-range ILD foam in our Graphite Comfort Series. AF01010004 is a polyurethane-based, flame-retardant foam designed and engineered at the molecular level to deliver unprecedented comfort in commercial & general aviation.

TYPICAL USES:

- Bottom & Back Cushion Support/Comfort Layer
- Bottom & Back Cushion Bolsters
- Bottom Cushion Main Layer (Firm Level of Comfort)
- Business & First Class Furniture Padding

PROPERTIES	ISO Standard	ASTM Standard	Imperial	Metric
Density	ISO 845	ASTM D3574	3.7 - 4.1 lbs/ft ³	60 - 65 kg/m ³
Hardness (IFD/ILD 40%)	ISO 2439:2008	ASTM D3574	50 lbs - 62 lbs	225-275 N
Tear Strength	ISO 8067:1995	ASTM D3574	1.1 lbs/in	190 N/m
Tensile Strength	ISO 7214:1998	ASTM D3574	18 PSI	122 kPa
Elongation	ISO 7214:1998	ASTM D3574	96 (%)	
Resilience		ASTM D3574	48 (%)	
Dynamic Fatigue				
Hardness loss at 40%			25 (%)	
Thickness loss at 40%	ISO 3385:2014		4 (%)	
Static Fatigue				
Hardness loss at 40%			25 (%)	
Thickness loss at 40%	ISO 3385:2014		4 (%)	

FLAMMABILITY	Standard	Results
12 Second Vertical Burn	CFR/CS 25.853 app F, part I (a) (1) (ii)	Pass
Seat Oil Burn	CFR/CS 25.853 app F, part II	Pass(*)
Smoke	14 CFR/JAR/CS Part 25 app F & ABD 0031	Pass
Toxicity	ABD 0031 (Issue G) & AITM 3-0005 (Issue 2)	Pass

COLOR

Pale Green

(*) When used in combination with specific textile covers and/or fire blocking textiles