

Pregis PolyPlank®

Military-Grade Engineered Foam Plank

Pregis PolyPlank® extruded polyethylene military-grade foam plank solutions deliver high-performance protection for mission-critical aerospace and defense needs.

Engineered for durability, resilience, and impact resistance, PolyPlank is available in various densities and formulations to shield sensitive instruments and equipment from shock, vibration, and other hazards.

Trusted by foam fabricators, it meets rigorous military standards for consistent, reliable protection.

Pregis PolyPlank® LEL

Contains less than 10% LEL VOC meeting military and other low residual blowing agent specifications

Color:

- Charcoal black

Densities:

- 2 lbs / cubic ft
- 4 lbs / cubic ft
- 6 lbs / cubic ft
- 9 lbs / cubic ft

Pregis PolyPlank® Fire Retardant

Chemically treated to be slow-burning or self-extinguishing when exposed to open flame

Color:

- Ivory

Densities:

- 2 lbs / cubic ft

Pregis PolyPlank® Fire Retardant Anti-Static

Fire Retardant foam offering ample protection with non-static properties

Color:

- Blue/Grey

Densities:

- 2 lbs / cubic ft



Applications:

- Ammunition
- Weaponry
- Instrumentation
- Case Foam

Sizes:

- 2" x 24" x 108"
- 2" x 48" x 108"*

*available for LEL only

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Military-Grade Engineered Foam Plank



PolyPlank military-grade foam plank solutions are specifically designed to meet or exceed the stringent requirements for today's military applications: Commercial Item Description A-A-59136 for Cushioning Material, Packaging, Closed Cell Foam Plank.

Physical Property	LEL Specification	Fire Retardant Specification	FRAS Specification	Test Method
Color	Industry visually acceptable	Industry visually acceptable	Industry visually acceptable	CID-A-A-59136, para. 3.8
Density	Type I – 2-to 9 pcf ±	Type I- 2.0 pcf	Type I- 2.0 pcf ±	ASTM D3575 - Suffix W - Method B
Compressive Strength	Type I – 4 –12 psi	Type I- 4 -12 psi	Type I- 4 -12 psi	ASTM D3575 - Suffix D
Compressive Set	Maximum 25% at 24 hours	Maximum 25% at 24 hours	Maximum 25% at 24 hours	ASTM D3575 - Suffix B
Water Absorption	Not greater than 0.1 psf	Not greater than 0.1 psf	Not greater than 0.1 psf	ASTM 3575- Suffix L
Constant Compressive Creep	Not greater than 10% loss	Not greater than 10% loss	Not greater than 10% loss	CID-A-A-59136, para. 3.10
Electrostatic Decay	Not greater than 2 second decay time	Not greater than 2 second decay time	No greater than 2 second decay time	EIA Standard 541, Appendix F
Surface Resistivity	Not less than 1.0×10^5 , but not greater than 1.0×10^{12}	N/A	Not less than 1.0×10^4 but not greater than 1.0×10^{11}	EIA Standard 541, Section 4.3
Dynamic Cushioning	Between upper and lower limits	Between upper and lower limits	Between upper and lower limits	ASTM D1596
Flammable Blowing Agent Content	Below 10% lower explosive limit (LEL)	100% of LEL for dimensionally stable fabrication	100% of LEL for dimensionally stable fabrication	Internal Method
Flame Response	N/A	Part 25, Appendix F Part I(a) (1) (ii)	Part 25, Appendix F Part I(a) (1) (ii)	FAR 25.853a
		225 @ 2.0" Thick	TBD	ASTM-E162
		300 @ 1" Thick	TBD	
		HF-2 Classification per UL94 Section 12, Table 12.1	HF-2 Classification per UL94 Section 12, Table 12.1	UL-94 HF
		Max 102mm/min burn rate	Max 102mm/min burn rate	FMVSS-302

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