



Gillfab™ 1137 Laminate

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Description

Gillfab 1137 is a fuel resistant laminate made from nylon cloth reinforced nylon resin.

Applications

A very flexible fuel resistant laminate designed for use as fuel cell liner in certain military aircraft.

Features

- Nylon - nylon construction is much more flexible and heat formable than fiberglass liners.
- Subject to burning.
- Absorbs minimal water or gasoline. Good solvent resistance, not subject to damage during installation.

Specifications

- Boeing BMS 8-13E.

Availability

Thickness:	.045" nom.
Length:	Up to 144".
Width:	Up to 60".
Weight:	.225/.275 psf
Color:	Natural-yellowish.

Construction

Resin: Solvent resistant nylon.
Reinforcement: 12 oz/yd² nylon cloth (SN6 type nylon).
Surface: Glossy.

Standard Tolerances

Thickness:	+/- 10%
Length:	+ 1", - 0"
Width:	+ 1", - 0"
Warp Twist:	8% of dimension measured



Alternative Gill Products

Product Number	Difference
Gillfab 1122	Acrylic resin instead of nylon resin, not as flexible.
Gillfab 1037	Fuel cell liner with both glass and nylon cloth, and polyester resin.
Gillfab 1075	Lower cost, less flexible polyester resin. Glass reinforced laminates; used as fuel cell liner.

Properties of Gillfab 1137

Type I .045" thick

Property	Test Method	Typical Values	
		English	(Metric)
Mechanical Properties			
Tested in warp direction at room temperature.			
Tensile strength,			
Type I, lb./in. (KG/m)	BMS 8-13E	850	(105)
Ksi (MPa)	FTMS406-1611	18.9	(130)
Elongation, % at ultimate load Type I	BMS 8-13E		
	Min.	15	
	Max.	34	
Physical Properties			
Specific Gravity	FTMS406-5011	1.35	
Resin Content, % avg.	FTMS406-7061	30	
Water Absorption, % max.	FTMS406-7031	5.0	
Dimensional Stability,	BMS-13E		
24" Gage Length			
Condition A,	min.	24.015	(610)
	max.	24.105	(612)
Condition B		>A	
Condition C		>A	
Flammability	FAR 25.853b		
Burn rate, in./min. (mm/min.)		2.0	(50.8)
Type I			

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