



## Gillite™ 1401 Transparent Laminate

1 December 2003

### Description

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Gillite™ 1401 Transparent Laminate is a fiberglass cloth reinforced polyester sheet. It is designed for use in any applications, where transparency combined with high strength and flammability characteristics are of primary concern.

### Applications

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- Aircraft cargo compartment liner per BMS 8-2, Class 1.
- Commercial transportation.
- Sandwich panel facing material.
- Home Land Security applications.
- Architectural – such as skylights.

### Features

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- Service temperature range: -40°F (-40°C) to 180°F (82°C)
- Transparency allowing for see-through visual inspections and ease of installation.
- Self Extinguishing.

### Specifications

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Meets flammability requirements of FAR Part 25 Appendix F Part III (burn through)  
FAR Part 25 Appendix F Part I (a)(1)(ii) 30 second, 45 degrees  
FAR Part 25 Appendix F Part I (a)(1)(i) 60 second vertical

### Availability

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Thickness:	0.030" (0.76mm) ± 10%
	Thickness can be varied to meet desired end use
Length:	Up to 168" (4,267 mm) + 0.5, - 0
Width:	Up to 60" ( 1,524 mm ) + 0.5, - 0
Color:	Transparent

### Construction

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Resin: Modified polyester  
Reinforcement: Woven glass cloth.



## Typical Properties of Gillite™ 1401 Transparent Laminate

PROPERTY	TEST METHOD	RESULT
Areal Weight, psf (kg/m <sup>2</sup> )	<b>GTP 085</b>	0.342 (1.670)
Thickness, inches (mm.)	<b>GTP 086</b>	0.036 (0.91)
Edge Bearing Strength, Warp, psi (mPa)	<b>BMS 8-223</b>	32,740 (225.7)
Edge Bearing Strength, Fill, psi (mPa)	<b>BMS 8-223</b>	31,707 (218.6)
Tensile Strength, Warp Direction, ksi (mPa) Fill Direction, ksi (mPa)	<b>ASTM D638</b>	41.9 (288.9) 36.2 (249.6)
Tensile Modulus, Warp Direction, msi (gPa) Fill Direction, msi (gPa)	<b>ASTM D638</b>	2.56 (17.65) 2.49 (17.17)
Bond Strength, lbs. (N)	<b>BMS 8-2</b>	1351 (6010)
Water Absorption, %	<b>ASTM D570</b>	0.11
Impact Strength, ft.- lbs. (N-m)	<b>BSS 7326</b>	8 (10.8)
Smoke Density, D <sub>s</sub>	FAR Part 25, Appendix F, Part V	300
Flammability, 60 second Vertical; Extinguishing Time, seconds. Burn Length, inches (mm.) Drip Extinguish Time, seconds.	FAR Part 25, Appendix F, Part I (b) (4)	0.00 3.3 (0.84) 0.00
Flammability, 30 seconds; 45° Extinguishing Time, seconds. Afterglow Time, seconds. Flame Penetration	FAR Part 25, Appendix F, Part I (b) (6)	0.00 0.00 None
<b>Oil Burner Burn-Through</b>	FAR Part 25, Appendix F, Part III	Pass

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