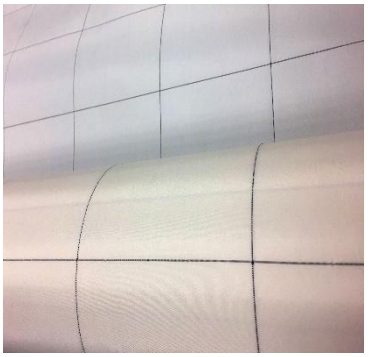
BA 500BCGW

PTFE Coated Fiberglass Static Dissipative "Beta Cloth"†



Description:

BA 500BCGW is a static-dissipative PTFE-coated fiberglass fabric (Beta cloth) with a woven-in grid of graphite yarn. The grid gives ESD performance in space, and the fabric is silicone free. At 8 mil it has a breaking strength of 95 x 90 lb/in and is rated -240 to 500 °F. Without an ESD requirement, see BA 500BC.

Features & Benefits:

- Static-dissipative (ESD) performance: woven-in graphite yarn grid, 4 x 6 in
- Strong and tear-resistant: 95 x 90 lb/in breaking strength and 4 x 4 lb trapezoidal tear at 8 mil
- Heat-dissipative white surface: thermal emittance > 0.88, solar absorptance < 0.15; high temperature resistance, rated -240 to 500 °F
- High resistance to thermocycling, plasma, solar and vacuum, and UV radiation
- Chemically inert, non-flammable / fire resistant, low electrical loss
- Proven in space: silicone free, 30+ years of space heritage

Applications:

Spacecraft MLI (multi-layer insulation)

MMOD shielding and atomic oxygen (AO) mitigation

Boom and lunar infrastructure surface protection

Space cargo containers, packaging and light blocking

Construction/ Typical Properties	Value		Test Method
Solar Transmittance:	< 0.35		ASTM E903
Nominal PTFE Content:	10 - 27 %		
Thermal Conductivity*:	0.14 W/m·K		
Solar Absorptance:	< 0.15		ASTM E903
Thermal Emittance:	> 0.88		ASTM E408
Abrasion Resistance:	> 750 Taber Cycles		FTMS 191A-5308
Elongation at Break (Min. Avg):	2.0 x 2.0 %		
	Imperial	Metric	
Standard Widths:	80 in	2030 mm	
Coated Weight:	7.6 oz/yd^2	260 g/m^2	FTMS 191A-5041
PTFE Weight:	1.5 oz/yd^2	50 g/m^2	FTMS 191A-5041
Thickness:	8 mil	0.205 mm	FTMS 191A-5030
Breaking Strength (Min. Avg):	95 x 90 lb/in	165 x 160 N/cm	FTMS 191A-5102
Trapezoidal Tear (Min. Avg):	4 x 4 lb	17.8 x 17.8 N	FTMS 191A-5136
Grid Dimensions (Warp x Fill):	4 x 6 in	102 x 152 mm	
Temperature Resistance**:	-240 to +500°F	-150 to +260°C	

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*Not a routine test
**Based on widely available industry data. Testing required for exact application as values vary based on pressure and other environmental factors.
†Exports of these items must be made in accordance with the U.S. Export Administration Regulations. Items are ECCN 9A515.x pending CCATS

The physical properties listed above are typical values and are not to be construed as specifications. Our suggestions and recommendations for use are based on tests we believe to be reliable. Bron Aerotech does not warrant that the product is fit for any particular purpose. Purchaser must determine suitability of the product for the intended use. Bron Aerotech, Inc. assumes no liability for claims beyond the replacement value of our product proved to be defective. Manufactured for and distributed by Bron Aerotech.

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