BA 324

VDA / 92 GA PET



Description:

BA 324 is a 92 gauge polyester (PET) film aluminized on one side (99.99% pure aluminum, 300 Å minimum). It is a first surface mirror for multi-layer insulation (MLI) blankets: emittance is <0.04 and solar absorptance ≤0.14. The 1 mil film complies with Federal Specification L-P-377 and is rated -420 to 250 °F continuous. Standard width is 48 in (1.22 m).

Features & Benefits:

- Excellent physical, thermal and optical properties: emittance <0.04, solar absorptance ≤0.14
- Electrical resistance ≤1.0 Ω/sq
- Outgassing TML-WVR <1.0%, CVCM <0.1% (ASTM E595-93)
- Rated -420 to 250 °F continuous, 300 °F intermittent

Applications:

First surface mirror in MLI blankets

Layer in multi-layer insulation (MLI) blankets

Construction/ Typical Properties	Value		Test Method
Metallization Type:	99.99% Pure Aluminum		
Deposition:	300 Å Minimum		
Electrical Resistance:	≤1.0 Ohms/square		ASTM D257
Infrared Emittance:	<0.04		ASTM E408
Solar Absorptance:	≤0.14		ASTM E903 / ASTM E490
Elongation:	MD 160% / TD 100%		ASTM D882A
Density:	1.40 g/cc		ASTM D1505
Shrinkage:	MD 3.5% / TD 3.5%		190°C/5 min
Outgassing:	This product meets NASA guidelines per ASTM E595-93 as follows: TML-WVR <1.0%; CVCM <0.1%.		ASTM E595-93
Shelf Life:	This product shall meet the above specified values for no less than 12 months from the date of manufacture, provided the material is sealed/stored in the original packaging materials @ 19°C +/- 9°C (65°F +/- 15°F) in 50% RH +/- 10%.		
	Imperial	Metric	
Thickness:	1 mil	25.4 µm	ASTM D374-94, A, B, or C
Tensile Strength:	MD 29,000 psi TD 37,000 psi	MD 200 MPa TD 255 MPa	ASTM D882A

Yield:	152.5 ft^2/lb	31.2 m^2/kg	ASTM D1004-61
Weight / Area:	0.94 oz/yd^2	32 g/m^2	
Operating Temperature (Intermittent):	-420 to 300°F	-250 to 150°C	
Operating Temperature (Continuous):	-420 to 250°F	-250 to 120°C	

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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