

BISCO® Silicones

BISCO® A2 Sound Barrier

Typical Product Properties

BISCO® A2 Sound Barrier is a solid silicone rubber engineered to meet demanding requirements for flammability, smoke density and toxicity. A2 is used to block the transmission of sound and demonstrates excellent performance in low frequency noise reduction. Innovative filler technology is used to create superior flame resistance meeting the radiant panel flammability test FAR25.856(a).

Applications:

- Aircraft acoustic insulation
- Noise reduction liner for interior panels
- Aircraft flooring noise barrier
- Rail interior noise blocker

Availability (rolls)

- Areal Densities (Surface Weight) from 1.2 kg/m² to 8.2 kg/m²
- Standard width 1000mm
- Standard roll length 5m
- Samples available upon request

Specifications

- **Airbus ABS5708**

Preliminary Technical Data		
Properties	Typical Values	Test Methods
Polymer Type	VMQ	ISO 1629
Color	Light Gray	
Density	1.64 g/cm ³	ISO 2781
Hardness	62 Shore A	ISO 868
Tensile Strength	2.8 MPa	ISO 37 Type 2
Elongation at Break	220 %	ISO 37 Type 2
Tear Strength	10.2 N/mm	ISO 34 Method C
Temperature Stability	-50° C to + 180° C	
Fire Resistance		
Flammability	Pass JAR/FAR, Part 25 25.853(a) Change 15/Amdt. 25-91	JAR/FAR, Part 25, App. F Part I, Para (a) (1) (ii)
Flame Propagation Resistance	Pass FAR, Part 25 25.856(a)	FAR, Part 25, App. F Part VI
Flame Penetration Resistance in Bonded Condition	Pass JAR/FAR, Part 25 Change 15/Amdt. 25-60, 25.855(c) and App. F Part III	JAR/FAR, Part 25, Change 15/Amdt. 25-60, App. F Part III
Smoke Gas Components	Pass	AITM 3.0005.
Smoke Density	Pass	JAR/FAR 25, App. F, Part V & AITM 2.0007

Product Matrix

- **Standard Width**
1000mm
- **Standard Roll Length**
5m (*other roll sizes available on request*)
- **Minimum Order Quantity**
5m
- **Surface Weight (Area Density) Availability**
1.2 kg/m² (0.25 lbs/ft²) to 8.2 kg/m² (1.68 lbs/ft²)
- **Specifications**
Airbus ABS5708

Standard Surface Weight (Area Density)	
kg/m ²	Lbs/ft ²
1.2	0.25
1.5	0.31
2.3	0.47
3.0	0.61
3.5	0.72
4.7	0.96
5.9	1.21
7.0	1.43
8.2	1.68
Other surface weights available on request	

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