Product Data Sheet

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BISCO® RF-120

BISCO® RF-120 is a specialty silicone composite consisting of smooth aluminized fabric and low density BF-1000. It is a reflective foam designed to aid in heat management applications by both insulating against heat and reflecting it away, and is used in commercial, professional and military vehicles.

PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
PHYSICAL			
Color	VISUAL	WHITE	---
Thickness Available, mm (inches)		2.50 ± 0.762 (0.098 ± 0.03) 5.00 ± 0.762 (0.197 ± 0.03)	---
Areal Density, kg/m^3 (lb./ft^2) 2.50 (0.098") 5.00 (0.197")	ASTM 146	0.83 (0.17) 1.17 (0.24)	0.25 max 0.35 max
CFD Force Measured at 25% Deflection, kPa (PSI)	ASTM D1056	**41(6) **CFD is measured on foam only	16.5 (2.4) 0-35 (0-5)
*Tensile, kPa (PSI)	ASTM D412	138 (20)	---
*Elongation, % min	ASTM D412	60	---
Compression Set, % 22 hours, 100˚C (212˚F), 50% compression	ASTM D1056	35	---
Cohesive Failure	INTERNAL	PASS	---
Flammability, 4 in/min max	SAE J369	---	PASS
Temperature Range, C° (F°)	INTERNAL	---	-55˚to+200˚ (-67˚to 392˚)

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PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
ELECTRICAL & THERMAL			
*Dielectric Strength, Volts/mil	ASTM D149	55	---
*Dielectric Constant (1 kHz)	ASTM D150	1.6	---
Dissipation Factor (1 kHz)	ASTM D150	0.0251	---
Dry Arc Resistance, Seconds	ASTM D495	99	---
Volume Resistivity, Ohm-cm	ASTM D257	10^16	---
Thermal Conductivity, W/m °K	ASTM D518	0.067	---

*Tensile, Elongation and Dielectric properties are tested with substrate.

Notes:

- All metric conversions are approximate.
- Additional technical information is available.
- Values should not be used for specification limits.

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