ROGERS CORPORATION

BISCO® Silicones

Elastomeric Material Solutions
www.rogerscorp.com

Typical Product Properties

BISCO® MSK-2 – Kevlar Reinforced Silicone Elastomer

BISCO® MSK-2 is a soft silicone elastomer foam reinforced with Kevlar on both sides. The silicone foam is casted directly onto the Kevlar substrate and adheres without the need of an adhesive layer. BISCO MSK-2 is specifically engineered for use in aircraft applications and complies with Airbus ABS5026 B01 material specification.

Features and Benefits

- Kevlar reinforcement provides resistance to tear and abrasion.
- Reinforced construction enables ease of stitching.
- Pliable construction from soft embedded silicone foam.
- Unique silicone compound and reinforcement enable high flame resistance performance for critical fire-safe applications.
- Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments.
- Available through distribution sites throughout North America, Europe, and Asia.

Applications

- Aircraft cargo components
- Sealing of expansion joints
- Fire protection covering with high tear resistance

Specifications

- ABS 5026 B01
- DAN 1226-03

- All customary unit conversions are approximate.
- Additional technical information is available.
- Typical values should not be used for specification limits.

BISCO® MSK-2		
PROPERTY	**TEST METHOD**	**TYPICAL VALUE**
PHYSICAL		
Color		Olive Green / White
Thickness, mm (inches)	ISO 1923	2.2 – 3.0 (0.086 - 0.118)
Standard Width, mm (inches)		1220 (48)
Areal Density, kg/m^2 (lb/ft^2)	ISO 2286-2	1.3 – 1.6 (0.266 – 0.328)
Tear Strength, min. N (lbf)	ISO 4674-1 B Warp Direction	20 (4.5)
	ISO 4674-1 B Weft Direction	35 (7.87)
Tensile Strength, min. N/25mm (psi)	ISO 1798 Warp & Weft Direction	500 (1102)
Elongation, min. %	ISO 1798 Warp & Weft Direction	50
FLAMMABILITY & OUTGASSING		
Flammability (Vertical 12 sec)	AITM2.0002B	Pass
Flame Penetration (Cargo Liner)	AITM2.0010	Pass
Smoke Density	AITM2.0007 Flaming & non-flaming mode	Pass
Toxic Gas Emissions	AITM3.0005 Flaming & non-flaming mode	Pass
Recommended Use Temperature, °C (°F)	Internal	-55° to 200° (-67° to 392°)