



安徽省蚌埠市高新区兴中路 985 号
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安徽艾约塔硅油有限公司

IOTA CORPORATION LTD.

Sunmoon industry park, 985 Xingzhong Road,
Bengbu, China 233000

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Ultra Soft Silicone IOTA-BF-2000

IOTA-BF-2000 Ultra Soft is a highly compressible silicone foam. The combination of low weight and softness makes this flame retardant foam ideal for transportation, industrial, and electronics applications where low closure force and dust sealing are critical. BISCO Silicones are available in various thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

Features and Benefits

Ultra low softness allows designers to use less force to seal enclosures and still protect their device from the environment.

High compressibility allows material to conform to variable width gaps, thereby allowing more design flexibility.

Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.

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

Vibration isolation in electronic components and transportation vehicles

Low closure force gaskets within portable electronics such as laptops and LCD screens within aircraft and rail interiors

Fire retardant thermal insulation

Installation

Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of surfaces.

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IOTA-BF-2000		
Property	Test Method	Typical Value
PHYSICAL		
Color		Black
Thickness, mm (inches)		12.7 – 914 (0.500 - 36.0)
Density, kg/m ³ (lb./ft ³)	ASTM D 1056	160 (10.0)
Compression Force Deflection, kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	13.8 (2.5 Max)
Compression Set, Typical	ASTM D 1056 Test D @ 70°C (158°F), 22 hrs	1%
	ASTM D 1056 Test D @ 100°C (212°F), 22 hrs	5%
Tensile Strength, min. kPa (psi)	ASTM D 412	172 (25)
Elongation, % min.	ASTM D 412	80
FLAMMABILITY & OUTGASSING		
Flame Resistance	UL 94	Listed V-0 and HF-1

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Flame Spread Index (I s)	ASTM E 162	<25
Smoke Density (D s)	ASTM E 662	
	Tested @ 4.0 Minutes	<50
	Tested @ 1.5 minutes	<20
Toxic Gas Emissions Rating	SMP-800C	Pass
Recommended Use Temperature, °C (°F)	Internal	-55° to 200° (-67° to 392°)

The information contained in this Data Sheet is intended to assist you in designing with IOTA Silicone Materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on the Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of IOTA Silicone Materials for each application.

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