



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号

日月科技园

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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

Tel: 86-552-3827158

Fax: 86-552-3822922

### Extra Soft Cellular Silicone IOTA-BF-1000

Compressibility, softness, and durability allow BF-1000 to adapt to various environments, making it an ideal choice for sealing outdoor enclosures, protecting electronics from shock and heat, and providing cushioning or vibration isolation for various applications.

#### Features and Benefits

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

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

High compressibility allows the material to conform to variable width gaps and awkward shapes, thereby allowing engineers more design flexibility.

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.

FDA compliant in accordance with FDA Regulation 21 CFR 177.2600. †

#### Applications

Environmental seals to protect against penetration of dust, moisture, air or light within outdoor enclosures such as lighting fixtures, and electronic cabinets.

Vibration isolation in electronic components and transportation vehicles.

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.

IOTA-BF-1000		
Property	Test Method	Typical Value
<b>PHYSICAL</b>		

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Color		White, Gray & Black
Thickness, mm (inches)		1.60 – 25.40 (0.063 – 1.000)
Standard Width, mm (inches)		914 (36)
Density, kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	ASTM D 1056	208 (13)
Compression Force Deflection, kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	20.7 (3)
Compression Set, % max.	ASTM D 1056 Test D @ 70°C (158°F), 22 hrs. ASTM D 1056 Test D @ 100°C (212°F), 22 hrs.	< 1       < 5
Tensile Strength, kPa (psi)	ASTM D 412	241 (35)
Elongation, %	ASTM D 412	90
<b>FLAMMABILITY &amp; OUTGASSING</b>		
Flame Resistance	UL 94	Listed V-0 and HF-1
Flame Spread Index (L s )	ASTM E 162	< 35
Smoke Density (D s )	ASTM E 662 Tested @ 4.0 minutes Tested @ 1.5 minutes	< 50  < 20

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Toxic Gas Emissions Rating	SMP-800C & BSS 7239	Pass
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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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