



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

### Soft Cellular Silicone IOTA-HT-870

Compressibility, softness, and durability allow HT-870 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. IOTA 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

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 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.

#### Applications

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

Shock absorbing cushions and gaskets within automobiles and appliances.

#### Installation

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

IOTA-HT-870		
Property	Test Method	Typical Value
<b>PHYSICAL</b>		

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

Tel: 86-552-3827158; Fax: 86-552-3822922 Website: [www.personalcaresilicone.com](http://www.personalcaresilicone.com)



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Color		Black, Red
Thickness, mm (inches)		1.6 – 12.7 (1/16 to 1/2)
Standard Width, mm (inches)		914 (36)
Density, kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	ASTM D 1056	240 (15)
Compression Force Deflection, kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	27.6 (4)
Compression Set, % max.	ASTM D 1056 Test D @ 70°C (158°F) ASTM D 1056 Test D @ 100°C (212°F)	< 1  < 5
Tensile Strength, kPa (psi)	ASTM D 412	207(30)
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	< 25
Smoke Density (D s)	ASTM E 662 Tested @ 4.0 minutes Tested @ 1.5 minutes	< 50 < 20
Toxic Gas Emissions Rating	SMP-800C	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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