



深圳市沃尔核材股份有限公司
SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

Product Specification

Product Name	Heat Shrink Silicone Rubber Tube	Supplier Code	
Specification	All Specifications	Customer Code	

Supplier Approval (Shenzhen Woer Heat-shrinkable Material Co., Ltd.)

Drafted/Date	Verified/Date
Wei Wei/June 1, 2020	Hu Jun/ June 1, 2020

Customer Approval

Customer Approval /Date		
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Address: Woer Industrial Park, Lanjing North Rd, Longtian Street, Pingshan, Shenzhen, China

Post Code: 518118

Tel: 86-755-28299027

Fax: 86-755-28299026

Website: en.woer.com

1. Scope

This approval specifies technical requirement, package, storage and specification of the heat shrink silicone rubber tubes.

2. Standards

ASTM-D-638 (GB/T 1040)

Standard test methods for tensile properties of plastics

IEC 60243 (GB/T 1408)

Electrical strength of insulating materials-Test methods

IEC 60093 (GB/T 1410)

Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials

ISO 34 (GB/T 529)

Rubber, vulcanized or thermoplastic: Determination of tear strength

3. Technical requirements

3.1 Product properties

Heat shrink silicone rubber tubes are used for insulation, protection, and sheathing applications. The inner diameter shrinks by about 50% simply by heating. These rubber tubes have superior heat and cold resistance, flexibility, and electrical insulation. They typically maintain their performance characteristics over a wide temperature range, from -50°C to $+150^{\circ}\text{C}$.

Standard color: Black, Grey, White. Tubes of other colors are supplied in special request.

3.2 Appearance

The surface of the silicone rubber tube should be smooth and clean, and free of pinholes or cracks visible to the unaided eye.

3.3 Heat shrink properties

Start to shrink at 90°C .

Continuous operation temperature: -50°C to $+150^{\circ}\text{C}$.

3.4 Physical and chemical properties: See Table 1.

3.5 Product specification: See Table 2.

4. Package, Transportation and Storage

4.1 Products can be packed according to customer's requirement.

4.2 These products are non-hazardous. Keep in clean, cool, dry, well-ventilated storage area. During transportation and storage, pay attention to rain and sun and keep away from sources of ignition.

Table 1. Technical Data

Property	Test Method	Standard Value
Tensile Strength	ASTM-D-638	$\geq 4.5\text{MPa}$
Elongation at Break	ASTM-D-638	$\geq 450\%$
Tear Strength	ISO 34	$\geq 20\text{kN/m}$
Volume Resistivity	IEC 60093	$\geq 1 \times 10^{12} \Omega \cdot \text{cm}$
Dielectric Strength	IEC 60243	$\geq 20\text{kV/mm}$

Table 2. Product Specification

Spec.	As Supplied/mm		After Recovery/mm	
	Inner Diameter Min	Wall Thickness (± 0.2)	Inner Diameter Max	Wall Thickness (± 0.2)
$\Phi 6$	6	0.55	3.6	1.0

Shenzhen Woer Heat-shrinkable Material Co., Ltd.
Power Division
June 1, 2020