

Reference
Exhibit

Antibacterial Silicone Rubber

X-30-483x Series, X-34-4399

Silicone rubber formulated with an inorganic antibacterial agent

Antibacterial

**Heat
resistant**

**Weather
resistant**

**Good
moldability**

**Good
workability**

Colorability



Features

- Antibacterial properties are added to general properties of silicone rubber.
- Excellent heat and weather resistance and sustainable antibacterial properties.

Applications

Wearable products and various types of daily necessities, etc.



General properties

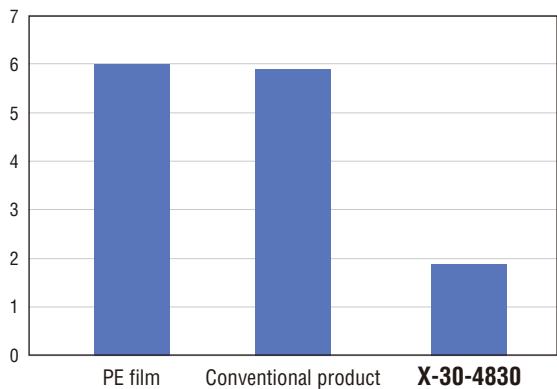
Grade	HCR grade		LIMS grade	
Parameter	Product name	X-30-4830-U	X-30-4832-U	X-34-4399-A/B
Appearance		White	White	White
Plasticity		155	239	—
Curing agent	Curing agent name	C-25A/B	C-25A/B	—
	Standard addition quantity	0.5/2.0	0.5/2.0	—
Standard molding condition	Primary cure	120°C × 10 min	120°C × 10 min	120°C × 10 min
	Post cure	200°C × 4 h	200°C × 4 h	No need
Hardness Durometer A		40	60	42
Density at 23°C	g/cm ³	1.14	1.20	1.15
Tensile strength	MPa	8.1	8.9	10.7
Elongation at break	%	640	440	664
Tear strength Crescent	kN/m	17	24	28
Compression set 150°C × 22 h	%	6	7	—

(Not specified values)

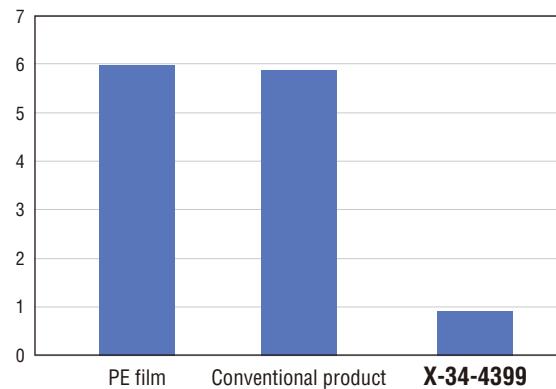
X-30-483x Series, X-34-4399

Antimicrobial data (species A: common logarithm of viable counts after 24 h incubation)

HCR grade



LIMS grade



* Measurement results on our 2 mm thick sheet

* This value is not a specification value or guaranteed value.

* The antibacterial properties may vary depending on the shape, size, and molding conditions of the molded product.

Handling precautions

■Silicone rubber

1. Silicone rubber may react with strong oxygen agents.
2. Uncured substance generates silica. Please handle with caution.

■LIMS

1. Seal container tightly and store in a cool, dark place (25°C or below, out of direct sunlight) with good ventilation. Keep away from heat and flame because the primers used may be classified as flammable hazardous materials.
2. LIMS liquid silicone rubbers may not cure properly if they come in contact with certain substances, including amines, sulfur, organophosphorus compounds and organotin compounds. If there is a possibility of curing inhibition, the user should perform a test to determine whether the product will cure properly.

Some curing inhibitors

●Chloroprene and other synthetic rubbers	●Amine-cure epoxies
●Sulfur compounds	●PVC insulating tape
●Soft PVC	●Soldering flux that contains rosin

3. Mixing Liquid B with alkaline substances produces flammable hydrogen gas, so handle with caution.

Safety and hygiene

1. This product causes serious eye irritation and may cause skin irritation. When handling the product, be sure to avoid contact with the skin and mucous membranes by wearing protective glasses and protective gloves. In case of skin contact, immediately wipe off with dry cloth and then flush thoroughly with running water. In case of accidental eye contact, flush immediately with plenty of clean water for at least 15 minutes and then seek medical attention. Contact lens wearers must take special care. If the products get into the eye, the contact lens may become stuck to the eye.
2. In a confined space with poor ventilation, please wear a protective mask. It is recommended to provide local ventilation. If vapors are inhaled and victims feel uncomfortable, move immediately to an area with fresh air. When you put non-hardening substance into the discard, silica and other powder generate. So you should wear a protective mask.
3. Keep out of reach of children.
4. Be sure to read the Safety Data Sheets (SDS) for these products before use. SDS are available from the Shin-Etsu Silicone website. If the SDS is not listed on the website, please contact the sales department.

SDS download URL : <https://www.shinetsusilicone-global.com/support/sdstds/>



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This is an edited version of the product data released on Jan. 2026.

<https://www.shinetsusilicone-global.com/>

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