## **Vibration Control Silicone Rubber**

### **KE-x01EM-U Series**, **KE-55x0-U Series**

# Millable Formed Silicone Rubber with Excellent Vibration Absorption in a Wide Temperature Range



Can be used in a wide range of temperature ranges from low to high temperatures that organic rubber cannot accommodate.

Lineup of low dynamic magnification type and high decrement type.

Applications FF joint boots such as muffler hangers for automobiles, engine mounts, suspension bushes, etc., and other parts that absorb and block the vibration of engines transmitted to the car body.



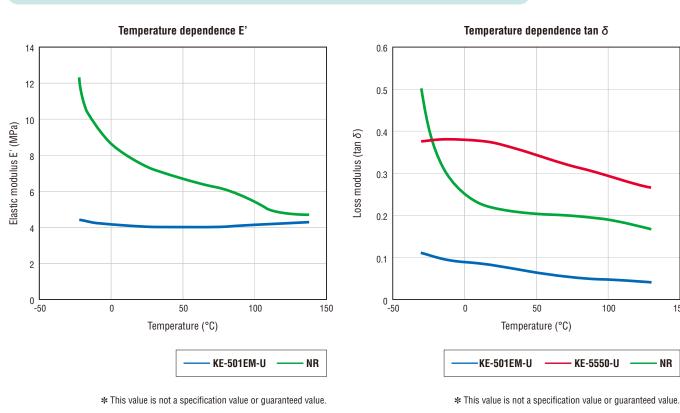
#### ■General properties

**Features** 

Grade		Low dynamic magnification	High decrement	Conventional product
Parameter Product name		KE-501EM-U	KE-5550-U	KE-551-U
Appearance		Milky white translucent	Pale yellow	Milky white translucent
Curing agent	Curing agent name	C-15	C-8	C-15
	Standard addition quantity	1.5	2.0	1.5
Standard molding condition	Primary cure	165°C x 10 min	165°C x 10 min	165°C x 10 min
	Post cure	200°C x 4 h	200°C x 4 h	200°C x 4 h
Hardness Durometer A		53	50	56
Density g/cm <sup>3</sup>		1.10	1.25	1.14
Tensile strength MPa		7.7	9.0	11.2
Elongation at break %		520	710	530
Tear strength Crescent kN/m		20	35	17
Modulus of resilience %		75	21	65
Viscoelasticity (Temperature: Room temperature/Frequency: 30 Hz/Displacement: 400 µm)				
Elastic modulus E' MPa		4.15	5.67	5.10
tan $\delta$ (Loss modulus)		0.06	0.39	0.11
	Hz, 400 μm MPa	3.49	4.07	4.48
magnification E' at 10	) Hz, 50 μm MPa	4.33	11.41	6.36
Dynami	c magnification: E'100/E'0.1	1.24	2.80	1.42
Rubber hardness lineup Durometer A		40 - 70	30 - 70	40 - 80

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#### Physical properties are less dependent on temperature from low to high temperatures

#### Handling precautions

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

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. Users are solely responsible for making preliminary tests to determine the suitability of products for their intended use. Statements concerning possible or suggested uses made herein may not be relied upon, or be construed, as a guaranty of no patent infringement.

. For detailed information regarding safety, please refer to the Safety Data Sheet (SDS)

•The silicone products described herein have been designed, manufactured and developed solely for general industrial use only; such silicone products are not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the



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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 aconfined 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. Please read the Safety Data Sheets (SDS) before use. SDS can be obtained from our Sales Department.

suitability of the silicone products described herein for any application, to make preliminary tests, and to confirm the safety of such products for their use

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Users must never use the silicone products described herein for the purpose of implantation into the human body and/or injection into humans.