

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

Vibration absorption	Low dynamic magnification	High decrement
Heat resistance	Cold resistance	High fatigue durability



- Features**
- 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

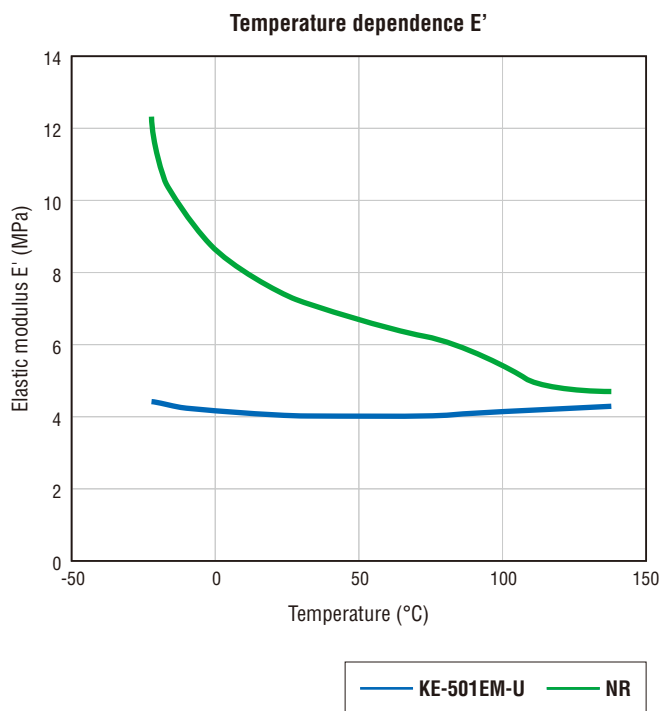
Grade		Low dynamic magnification	High decrement	Conventional product	
Parameter		Product name	KE-501EM-U	KE-5550-U	KE-551-U
Appearance		Milky white translucent			
Curing agent	Curing agent name	C-15	C-8	C-15	
	Standard addition quantity	1.5	2.0	1.5	
Standard molding condition	Primary cure	165°C x 10 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 ³		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 δ (Loss modulus)		0.06	0.39	0.11	
Dynamic magnification	E' at 0.1 Hz, 400 μm MPa	3.49	4.07	4.48	
	E' at 100 Hz, 50 μm MPa	4.33	11.41	6.36	
	Dynamic magnification: E'100/E'0.1	1.24	2.80	1.42	
Rubber hardness lineup Durometer A		40 - 70	30 - 70	40 - 80	

(Not specified values)

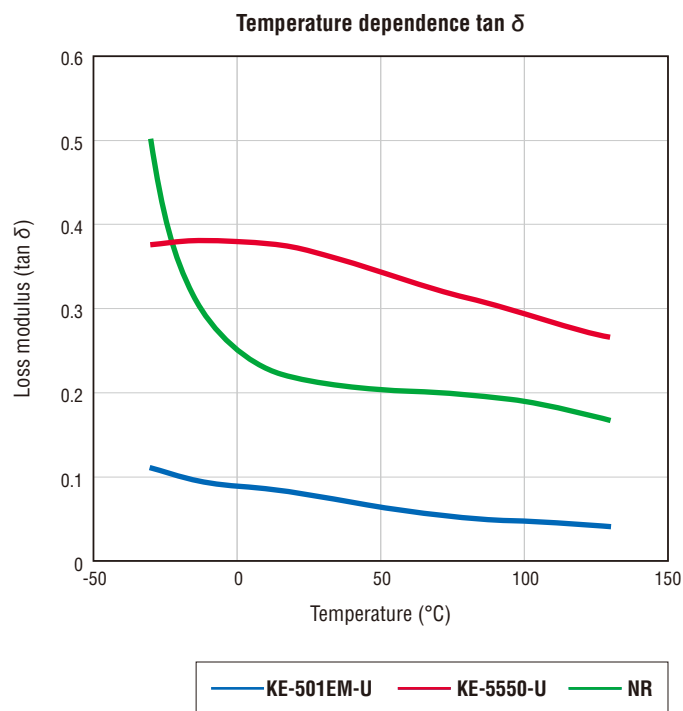
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Physical properties are less dependent on temperature from low to high temperatures



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



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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

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

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