

Fire Resistant Low Smoke Silicone Rubber

KE-1734-U

Low smoke type millable molding type silicone rubber with excellent fire protection.

Flame retardance

Low smoke

Low weight loss on sintering

European railway standard for fire safety

Dimensional stability after heat

Extrusion molding



Features

- High dimensional stability during fire and low amount of smoke generated.
- Sintering like ceramics when burned
- EN-45545-2 (R1/R7) standard certification

Applications

Fire resistant gasket of trains, ships, vehicle and underground area



General properties

Parameter		Product name	KE-1734-U
Appearance			Charcoal
Plasticity			420
Curing agent	Curing agent name		C-23N
	Standard addition quantity		1.3
Standard molding condition	Primary cure		120°C × 10 min
	Post cure		200°C × 4 h
Hardness Durometer A			74
Density at 23°C	g/cm ³		1.54
Tensile strength	MPa		5.8
Elongation at break	%		140
Tear strength Crescent	kN/m		13
Compression set 100°C × 22 h	%		17
Oxygen index	%		52

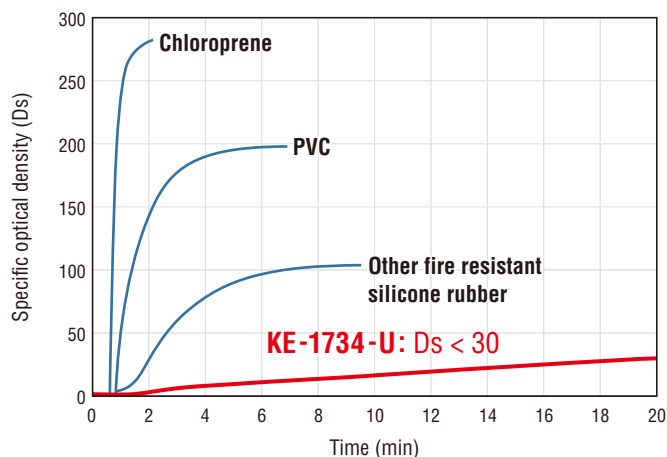
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Evaluation of fuming properties

Compared with conventional products and other resins, the amount of smoke generated is small, making it easier to see through the smoke in case of fire.



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

Weight Residual Rate and Appearance Change of Sintered Body

We compared a test sheet (2 mm thickness) which was baked at 800°C for 5 minutes with another sheet before baking. It was found that there was little weight change or foaming.

Residual ratio of the sintered body
800°C × 5 min **85%**



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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