

One-component Addition Cure Type RTV Silicone Rubbers High Strength Elastic Adhesive KE-8100

Higher bonding strength than conventional products

Features

- Tensile lap-shear strength : 5.0 MPa Tested substrate Aluminum, PBT, PPS
- Easy-to-handle one-component type (Refrigerated storage is required.)
- Excellent properties unique to silicone. These include : heat resistance, cold resistance, weather resistance, and electrical insulation
- Use temperature range -40°C to 150°C
- Curing conditions: 120°C x 1 hour

Solutions for Customers



General Properties

Parameter	Product name	KE-8100
Cure system		Addition
Before curing		
Appearance		Gray
Viscosity at 23 °C	Pa·s	120
Standard curing conditions		120°C×1 h
After curing		
Density at 23°C		1.31
Hardness	Durometer A	77
Tensile strength	MPa	7.1

(Not specified values)

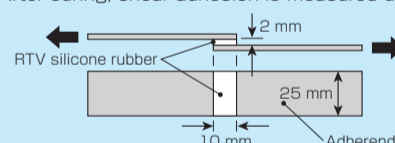
Tensile lap-shear Strength Test Data

Substrate	Product name	KE-8100	Conventional product KE-1835S
Aluminum/Aluminum		5.1	3.0
PBT/PBT		5.0	2.6
PPS/PPS		5.1	2.4

(Not specified values)

Testing the lap shear strength

The RTV silicone rubber is applied as shown in the figure. After curing, shear adhesion is measured using a tension tester.



Curing conditions : condensation cure type
23±2°C / 50±5% RH for 7 days.
addition cure type 120°C for 1 hour.
RTV silicone rubber thickness : 2 mm
Adhesive surface : 10 x 25 mm
Tensile speed : 50 mm/min

Polypropylene(PP) Adhesive Primers PRIMER PO-1, PRIMER PO-4

New primer developed for PP, a difficult-to-adhere substrate
Two lineups for condensation cure type and addition cure type

Adhesion Test Data

Parameter	Product name	PRIMER PO-1 For condensation cure type	PRIMER PO-4 For addition cure type	No Primer
Solvent		Hydrocarbon, ketone type	Ester type	-
Appearance		Pale yellow transparent to slightly cloudy liquid	Colorless transparent liquid	-
Drying time 23°C	min	30	30	-
PP adhesion strength*	Tensile lap-shear strength MPa	1.0	2.1	0.1
	Cohesion break rate %	100	100	0

*Adhesive : PRIMER PO-1= Sealant 45
PRIMER PO-4= KE-1825

(Not specified values)