



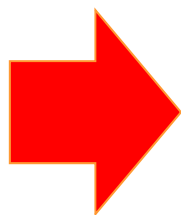
FUJIKURA COMPOSITES

Be prepared for emergencies with thermal expansion rubber seal !

Thermal Expansion Rubber Seal to prevent flame penetration

-Minimizes the spread of fire at any type of gaps of buildings-

Before heat exposure



After expansion

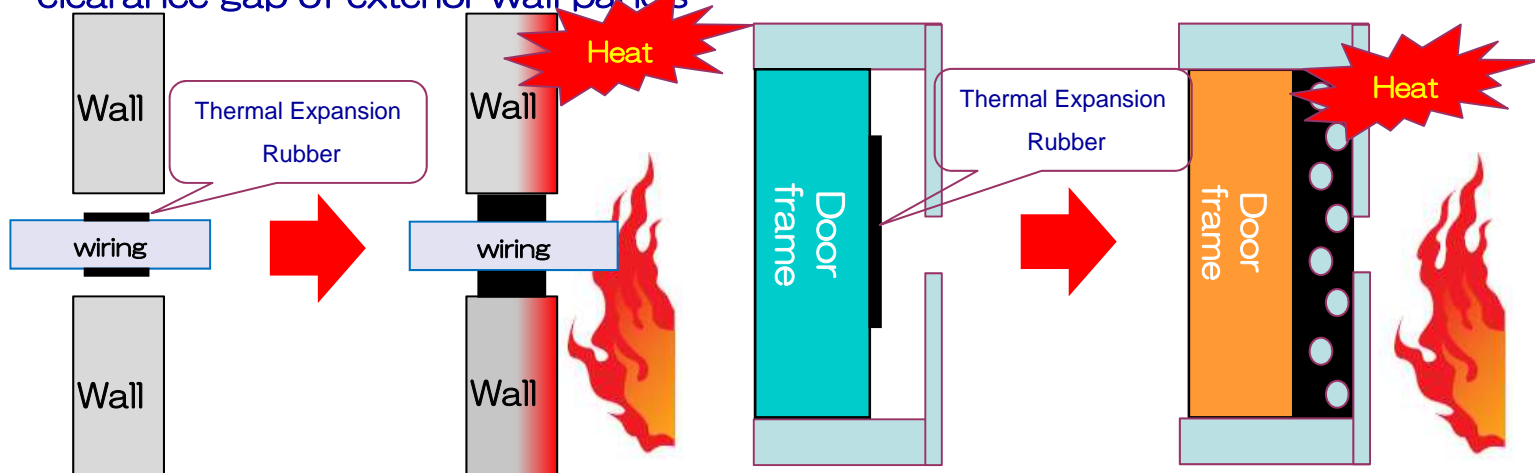


Usage

※Heat exposure at 400°C

of 10mm square test slab for 5-min

The thermal expansion rubber expands to fill the gap & minimize the spread of fire, by the heat of fire. Can be applied to window frames, doors, gas plumbing, clearance gap of exterior wall panels



Features

◎**Custom compound available** to meet your usage/needs !

(ex. Custom expansion rate, temp setting to start expansion, weather/water/oil resistance, low-temp properties)

◎**Custom made for shape & geometries** (sheets, tape, molded etc)

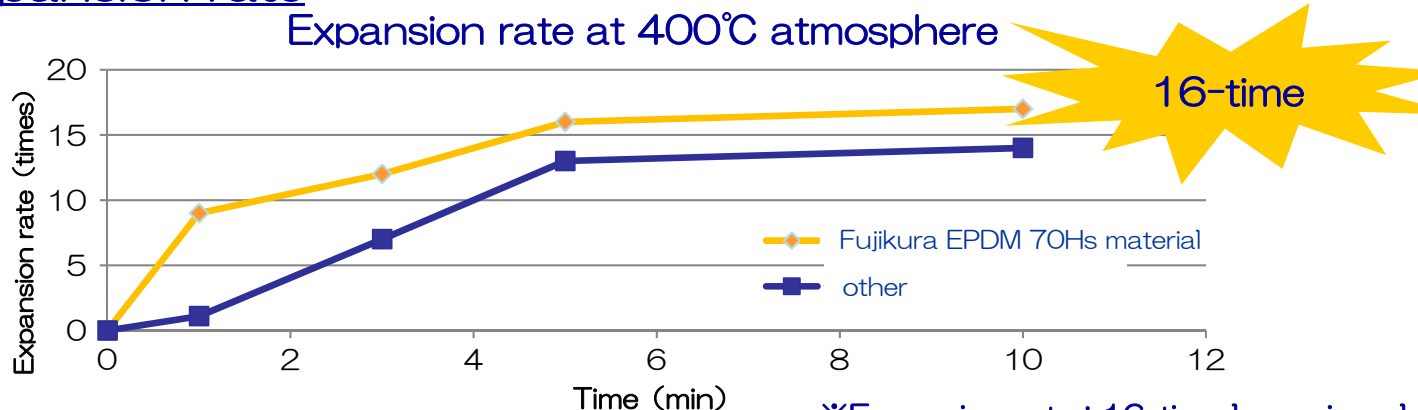
◎**Can be used as general seal** for its rubber properties at normal conditions

◎**Easy to manipulate** with general tool as rubber material.

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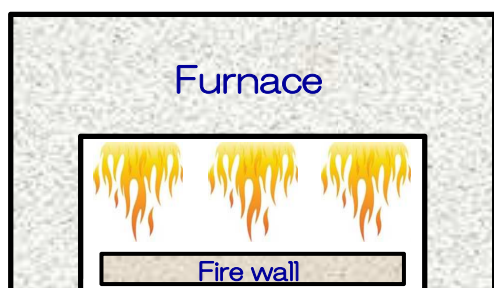
Data

◎Expansion rate



◎Flame Resistance

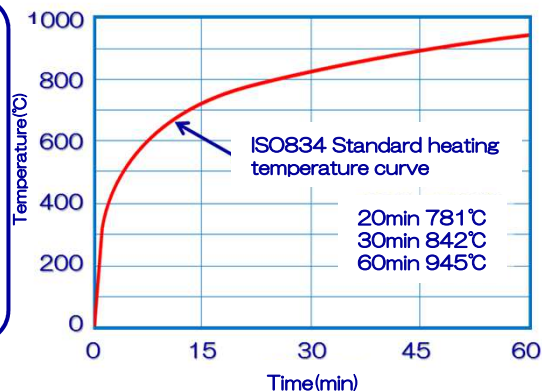
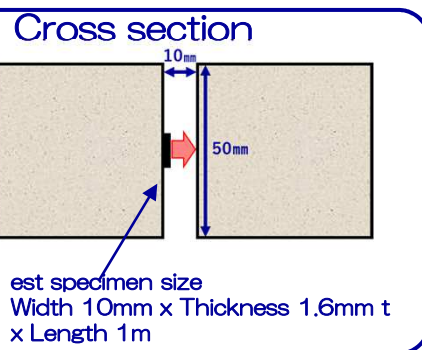
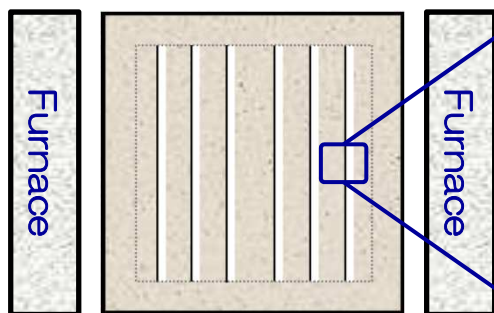
Test implemented with small size furnace (ISO834) Equivalent result to competitors compounds for similar use as a comparison test



Heat test in accordance with ISO834 standards heat curve
Test specimen : Comparing Fujikura thermal expansion rubber seal & competitors material for same use commonly used in the market

【Judging standards】

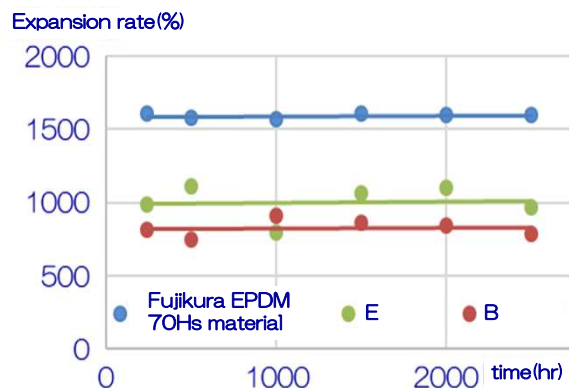
- ①no flame penetration before 10-sec
- ②no fume penetration before 10-sec
- ③no damage like cracks nor generating gap to spread of flame



◎Expansion rate in case of long storage

Long-term performance test		Other Company material B	Other Company material E	Fujikura EPDM 70Hs material
	Hr			
Expansion rate(%) At temperature & humidity 80°C×85%	240	813	985	1605
	500	752	1108	1580
	1000	916	798	1568
	1500	865	1065	1611
	2000	842	1102	1600
	2500	783	967	1598

※Expansion test 600°C×20min



For more information contact us from our website. Please search by QR code or thermal expansion rubber
RDTR07-0118 20150703

