FUJIKURA COMPOSITES

Thermal Expansion Rubber Seal

-for minimizing the spread of fire for houses & buildings

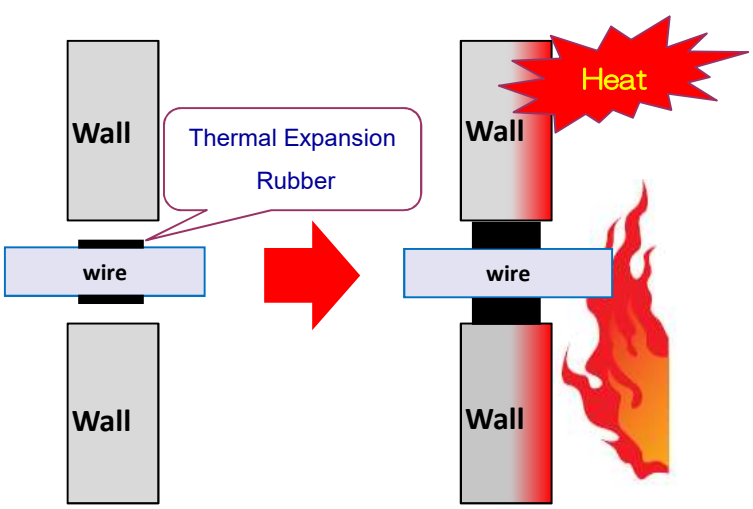
Before heat exposure

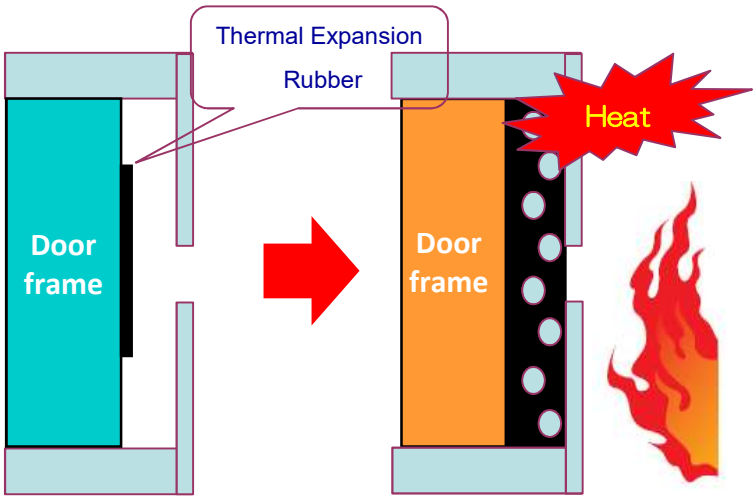
After expansion

※5-min heat exposure 400℃ 10mm test slab

Usage

Thermal expansion rubber starts to expand to fill the gap & creating the pathway w/heat of fire.
Used for window frames, doors, gas plumbing, exterior wall panels





Features

-Custom compound available to meet your usage/needs.

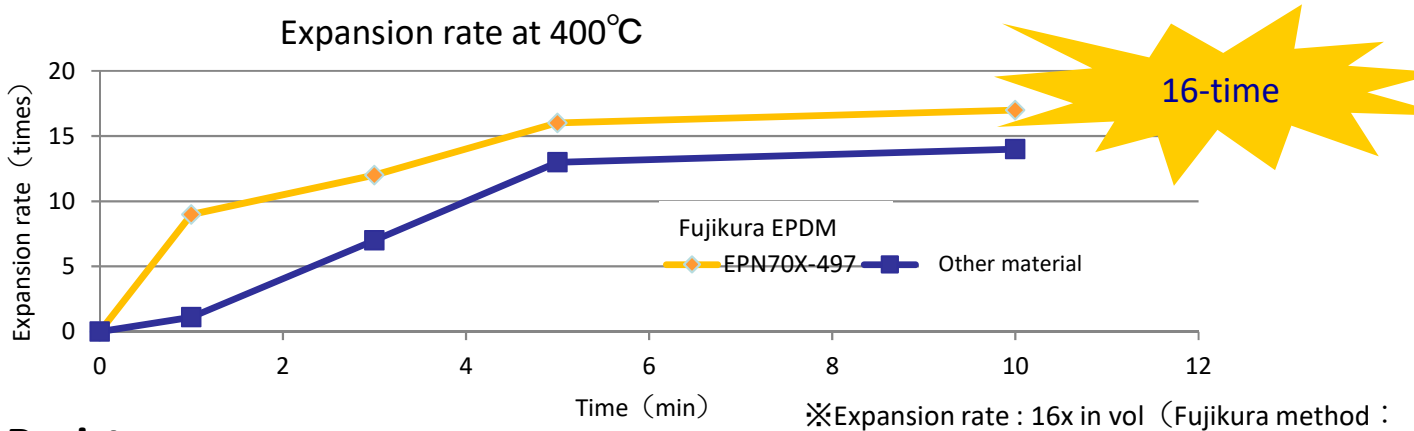
(expansion rate, trigger temp for expansion, weather/water/oil resistance, low-temp etc)

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

-Can be used as precision molded seals/gasket at normal conditions

Data

Expansion rate

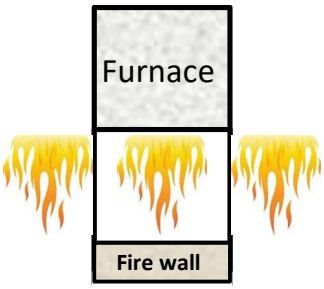


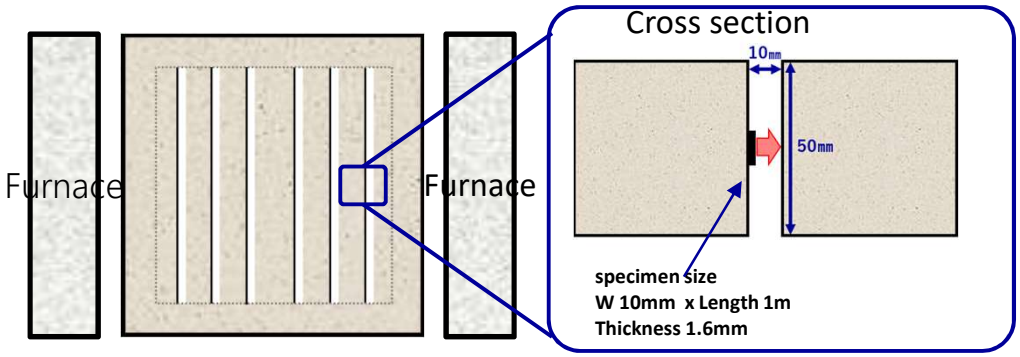
※Expansion rate : 16x in vol（Fujikura method：400℃ 10min）

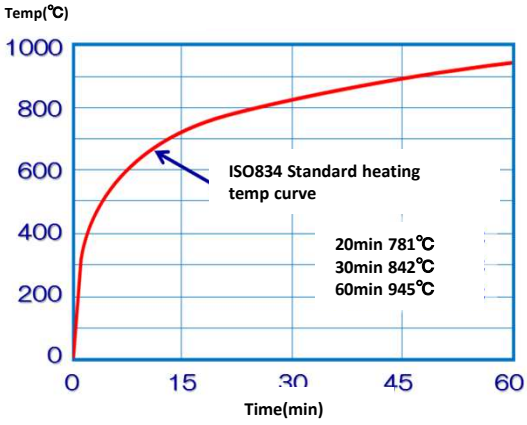
Flame Resistance

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

【Judging standards】
-no flame & fume penetration in 10sec
-no damage, cracks, generating pathway



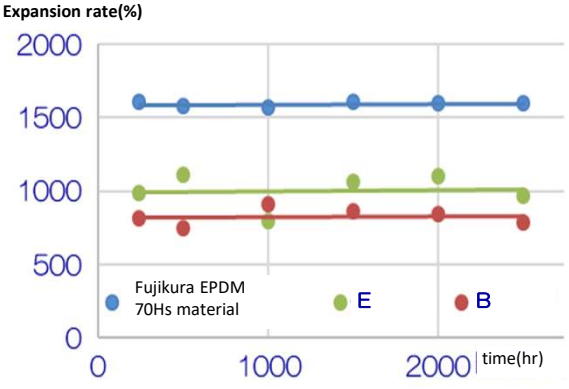




Expansion rate in case of long storage

Long-term performance test	Hr	Other Company material B	Other Company material E	Fujikura EPDM 70Hs material
Expansion rate(%) At temperature & humidity 80℃×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℃×20min



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

RDTR07-0119 20241205

FUJIKURA COMPOSITES Inc.

Industrial goods division
Gotanda JP Bldg. 4F, 8-4-13 Nishi-Gotanda, Shinagawa-ku, Tokyo 141-0031 JAPAN
fujikura_kouyou@fc.fujikura.co.jp