

# High Flame Retardant

## RX<sub>grade</sub> V-0 Urethane Foam

### RX-32

PORON RX-32 is a high flame retardant and halogen free grade which acquires UL94 V-0 standard.

High Flame Retardant Grade

## Characteristics



### High Flame Retardant

Halogen-free flame-retardant UL 94 V-0 certified urethane foam.



### High Heat Resistance

High performance that withstands temperatures up to 110°C.



### High Durability

Outstanding property stability even after long periods of use.



### Eco-Friendly

Includes plant-derived ingredients.



### Lower Cost

Competitive price than silicone foam. The double-sided adhesive tape can be used with acrylic adhesive tape.

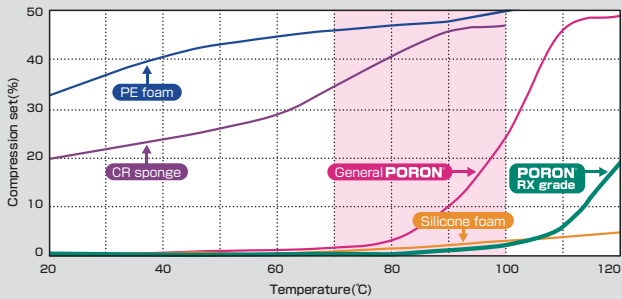
## Application

Cushion, gasket and dust sealing around a heat source such as battery, motor, power supply for electronics device and industrial equipment.

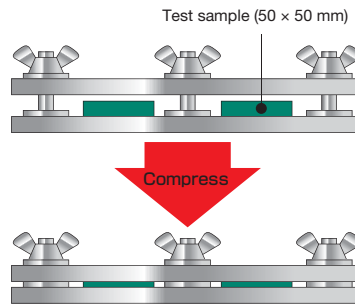
# PORON® High Flame Retardant RX-32

The high-performance characteristics of **PORON**, includes material high flame retardant, in addition to high sealability, vibration absorption, and dimensional stability.

## Compression set (temperature dependence)



## Test method

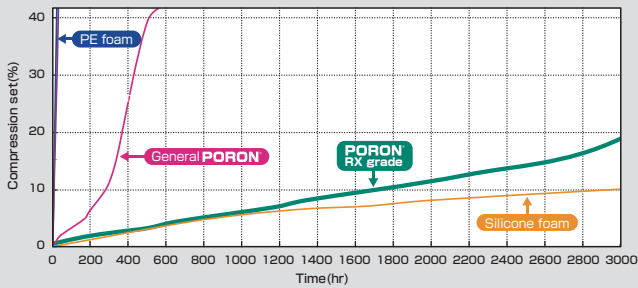


Samples were compressed 50% and left at each temperature for 22 hours. Afterward, the pressure was released, and the thicknesses of the samples were measured after 30 minutes had passed to calculate compression set.

$$\text{Compression set (\%)} = (T_0 - T_1) / T_0 \times 100$$

T<sub>0</sub>: Pre-test thickness    T<sub>1</sub>: Post-test thickness

## Compressive set (continuous long-duration compression)



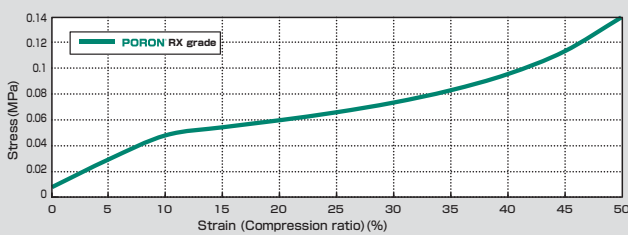
## Test method

Samples were compressed 50% and kept at 80°C. After the prescribed time had passed, the pressure was released. Then the thicknesses of the samples were measured after 30 minutes had passed to calculate compression set.

$$\text{Compression set (\%)} = (T_0 - T_1) / T_0 \times 100$$

T<sub>0</sub>: Pre-test thickness    T<sub>1</sub>: Post-test thickness

## Stress-strain curve



## Test method

Compression was applied at a speed of 1 mm/min, and the stress-strain curve (S-S curve) was measured.

## Physical properties

Item/unit	Product grade	RX-32	Rubber sponge	Silicone foam
Density	kg/m <sup>3</sup>	320	200	320
Tensile strength	MPa	0.50	—	0.37
25% CLD	MPa	0.06	0.07	0.07
Compression set	70°C	0.5	30 ≤	0.5
	100°C	2.5	30 ≤	1.1
Heat resistance	UL94	V-0	HF-1	V-0

\*All values are representative values.

## Product availability

Thickness (mm)	Width (mm)	Length (m)	RX-32
2.0	500	50	⊙
3.0	//	50	⊙
4.0	//	40	⊙
5.0	//	30	⊙
6.0	//	25	△
8.0	//	20	△

⊙: Available to order    △: Available Product (250m/lot)  
Certified UL94 V-0 for thicknesses between 2mm and 8mm.

- **PORON** Products are available worldwide.
- The specifications for this product are subject to change without notice.

DK **GMPack**  
Good material & packaging

**SUPPORTING INDUSTRY PRODUCTS AND PACKAGING**

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