BLAZER SERIES
High Performance Elastomer Parts

BLAZER™ NEXT

TOMBO™ No.2670-BNX

BLAZER™ NEXT is PERFLUORO ELASTOMER which has excellent heat resistance and plasma resistance. It has good sealing performance even under severe environments, which is difficult to realize using other elastomer materials.


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Features

Rough value of heat resistance: 335°C

Standard hardness (Duro A): 76

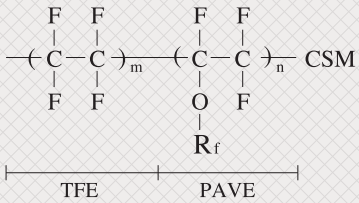
Undergoes little compressive permanent strain when subjected to high temperature, and can therefore be expected to realize stable sealing performance over a long period.

Applications

Sealing of heat treatment units for manufacturing semiconductors and LCD concerning which heat resistance is particularly necessary (annealing furnaces, LPCVD units, etc.)

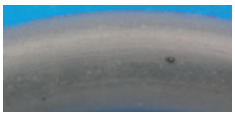
Sealing of units, piping and valves used in various industrial fields

Chemical structure (PERFLUORO ELASTOMER overall)



CSM = Cross-linked site monomer

350°C free heating test

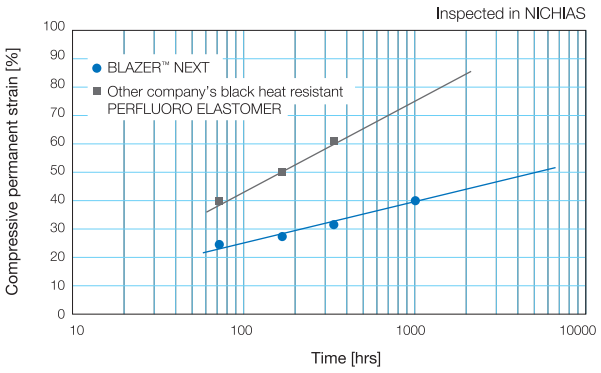
	BLAZER™ NEXT	Other company's product A	Other company's product B	Other company's product C
Before heating				
After heating for 72 hours				

* This data does not imply that use at 350°C is recommended.

⚠ Precaution for use

BLAZER™ NEXT undergoes large thermal expansion, so it may sometimes be subjected to excessive compression when used at high temperature (250°C or higher). Care must be taken, particularly when the compressibility (at normal temperature) is 20% or more. For details, please contact us.

Compressive permanent strain test results



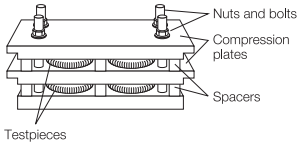
Test conditions

Measuring jig: Refer to the figure below.

Testpiece: O-ring (AS568-214: Thickness φ3.53 mm × I. D. 25.0 mm)

Heating temperature: 300°C

Compressibility: 19% (at normal temperature), 25% (when heated)



$$\text{Compressive permanent strain (\%)} = \frac{t_0 - t_1}{t_0 - t_2} \times 100$$

t_0: Original thickness of testpiece

t_1: Thickness 30 minutes after the testpiece is removed from the compressor unit

t_2: Thickness of the spacer

The high-temperature compressive permanent strain of the BLAZER™ NEXT is smaller than that of other company's black heat resistant PERFLUORO ELASTOMER (heat resistance temperature mentioned in catalog: 300°C), so this type of elastomer can be expected to realize stable sealing performance over a long period.