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PTFE PRODUCTS

3R810SH

Description

The 3R 810SH gasket sheet is manufactured by expanding 100% virgin PTFE using a proprietary process that produces a uniform and highly fibrillated microstructure with equal tensile strength in all directions. The resulting product exhibits characteristics significantly different than conventional PTFE sheets. This style is much softer and more flexible than regular PTFE sheet and thus conforms easily to irregular and rough surfaces. In addition, the material is easier to compress and minimizes creep and cold flow.

Applications

This material is an all purpose gasket sheet that can replace all other types of PTFE sheets. It will seal all aggressive chemicals over the entire 0-14 pH range except for molten alkali metals and elemental fluorine. Made from 100% virgin PTFE, it not only resists chemical attack, but it will not contaminate or discolor end products. These industries currently use expanded PTFE sheets: -distillers, pharmaceutical, iron and steel manufacturing, petrochemical, general chemical, pulp and paper, food and beverage, power generation and marine. Low creepnot requiring frequent retightening of bolts. High compressibility recommended for fragile flange material like ceramic, glass and plastic. Atmospheric agents like sunlight, ozone and ultraviolet light (UV) do not attack it.

Specifications

Technical Data	
Temperature	Continuous: -268°C to 260°C (-450°F to 500°F), Short Term: 315°C (600°F)
Color	White
pH	0 - 14 (except molen alkali metals and elemental fluorine)
Thickness	1/16", 1/8", 1/4"
Stress retention (DIN 52913)	15 MPa
Compressibility (ASTM F-36)	45%

Recovery (ASTM F-36)	14%
Tensile strength (ASTM F-152)	>20 MPa
Density	0.9 g/cm³
Shelf life	Unlimited (non-aging)

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.