



DURLON® PTFE MATERIALS

Due to its ability to withstand harsh environment conditions, PTFE gaskets are often used within industries that require resistance to aggressive chemicals, including chemical processing, pulp and paper, pharmaceuticals, rail tank cars, and more. Gasket Resources, Inc. manufactures several different types of PTFE materials to accommodate the diverse sealing applications seen in these industries and more. All of the following Durlon® PTFE sheet products are available in full sheets or as cut gaskets:



Durlon® 9000/9000N are inorganic fillers homogeneously blended with pure PTFE resins. Durlon® 9000 (blue) and 9000N (white) are designed for applications where resistance to highly aggressive chemicals is required. Both styles 9000 and 9000N, (including branding) conform to FDA requirements and are suitable for operating temperatures of -350 to 520°F (-212 to 271°C); or a maximum pressure of 1500 psig (103 bar) at ambient temperature. Durlon® 9000 has been proven through the "Test Protocol" of the Chlorine Institute and is listed as an acceptable gasket material for Dry Chlorine service (both liquid and gaseous) in Pamphlet 95, Edition 3 of the Chlorine Institute. Durlon® 9000/9000N has been independently tested and certified (BAM) for Oxygen service at pressures up to 585 psi (40 bar) and temperatures up to 392°F (200°C), and for service in liquid oxygen.



Durlon® 9002 is an adaptation of the original glass-filled formula to better meet extreme cryogenic system demands. Durlon® 9002 has passed both gaseous, [up to 260°C (500°F) and 52 bar (754 psi)] and liquid oxygen tests performed by BAM Federal Institute for Materials Research and Testing. Durlon® 9002 has also been tested for LOX Mechanical Impact Sensitivity, passing with zero reactions out of twenty tests (0/20) at a test reaction frequency of 0%. Durlon® 9002 is readily available through the standard manufacturing process and requires no secondary heat or cleansing treatments prior to gasket cutting. Durlon® 9002 comes available as oxygen cleaned gaskets, bagged, labeled, and sealed according to the European Industrial Gases Association standard for Cleaning of Equipment for Oxygen Service.



Durlon® 9200W (white) is a barium sulfate fillers homogeneously blended with pure PTFE resins designed for use in aggressive chemicals including caustics, hydrogen peroxide, sodium hypochlorite, nitric acid, liquors, and digester in pulp and paper service. Durlon® 9200W is also used for hydrofluoric acid service at moderate concentrations and temperatures or where a barium sulfate filled PTFE gasket material is specified within a temperature range of -350°F to 520°F (-212°C to 271°C), or with pressure up to 1500 psi (10.3 MPa). Style 9200W (white, branded) conforms to FDA requirements.



Durlon® 9400 (black) is made of pure PTFE resins combined with carbon fillers homogeneously dispersed throughout the compound. It is a high performance filled PTFE gasket designed for use in piping and equipment in chemical, pharmaceutical, food, and other general industrial applications. Durlon® 9400 is resistant to highly aggressive chemicals including for both anhydrous and aqueous hydrogen fluoride, and hydrofluoric acid. Style 9400 conforms to FDA requirements and also demonstrates good electrical conducting properties. It is suitable for operating temperatures of -350 to 550°F (-212 to 288°C); or a maximum pressure of 1500 psig (103 bar) at ambient temperature.



Durlon® 9600 (white, unbranded) is an expanded PTFE gasket material made with only pure PTFE resins. It is suitable for use in steel flanges as well as flanges where a highly compressible gasket is required. Durlon® 9600 is also suitable for sealing flanges with irregular surfaces. It does not exhibit the cold flow problems associated with virgin PTFE or the hardness problems of some other filled PTFE products. Durlon® 9600 is designed for use in process piping and equipment in chemical, pulp and paper, food and beverage, and other general industrial applications where resistance to highly aggressive chemicals is required. Style 9600 conforms to FDA requirements and is suitable for operating temperatures of -350 to 600°F (-212 to 316°C); or a maximum pressure of 1800 psig (124 bar) at ambient temperature.