

# Chemraz® 510

## Low-Temperature Elastomer



### Features and Benefits

- Broad chemical compatibility for use with a wide range of harsh solutions
- Low-temperature capabilities (-22°F/-30°C)
- Higher hardness and density reduces likelihood of gap extrusion

### Applications

- Mechanical seals
- Valves
- Pump housings
- Sampling/metering equipment
- Reactors
- Mixers
- Controls/instrumentation
- Compressors
- Sprayers/dispensers
- Couplings

### Sealing Solutions

Greene Tweed's Chemraz® 510, a perfluoroelastomer, offers an extremely broad range of chemical resistance with a Shore A hardness value of 90. With a temperature range from -22°F to 446°F (-30°C to 230°C), Chemraz® 510 is well suited for use in a range of applications, from mechanical seals to pump housings.

Because of its versatility, Chemraz® 510 is often used as a standard compound for sealing at high pressures. It can be found in a variety of fluids and solutions including acids, caustics, aldehydes, esters, aromatics, hot water, steam, amines, methanol, ketones, TBA, and MTBE. Chemraz® 510 is available for use as o-rings, gaskets, and many other custom shapes.

| Typical Properties                                                   |                                 |
|----------------------------------------------------------------------|---------------------------------|
| Physical Properties (ASTM Standard)                                  | Typical                         |
| Color                                                                | Black                           |
| Specific Gravity (D792)                                              | 1.92                            |
| Hardness, Type A, Points (D2240)                                     | 90                              |
| Mechanical (ASTM Standard)                                           |                                 |
| Compression Set, 70 Hours @ 400°F (204°C) @ 25% Deflection, % (D395) | 30                              |
| Elongation @ Break, % (D1414)                                        | 85                              |
| Modulus @ 50% Elongation, psi (MPa) (D1414)                          | 1,100 (7.6)                     |
| Tensile Strength @ Break, psi (MPa) (D1414)                          | 1,970 (14)                      |
| Thermal                                                              |                                 |
| Service Temperature Range, °F (°C)                                   | -22°F to 446°F (-30°C to 230°C) |

\* Note: Unless otherwise indicated, all tests are performed on -214 o-rings.

### Contact Us

Greene Tweed  
Houston, TX, USA

Tel: +1.281.765.4500  
Fax: +1.281.821.2696

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