

ProTechna™

Superior Protection and Enhanced Reliability in Demanding Environments

Greene Tweed's ProTechna™ provides a new level of protection for critical components in extreme environments. Leveraging the proven material benefits of our thermoplastic and elastomeric materials, our encapsulation capability eliminates direct exposure to extreme temperatures, harsh plasmas, and other damaging chemicals. Using the superior performance capabilities of our high-performance Chemraz® solutions, advanced engineered Arlon® materials, and a variety of other proven materials, ProTechna™ minimizes harmful particulation, extends operational service life, and maximizes production capabilities.

As part of our extensive portfolio of OpTegra™ integrated solutions, Greene Tweed's ProTechna™ capability offers custom solutions that solve critical environmental challenges. Our engineers evaluate each customer application, providing technical expertise to select the material and design for a solution with the ultimate level of protection and performance for critical components. For many applications, ProTechna™ enables multiple components to be integrated into a single-part solution. This part count reduction simplifies installation, and reduces inventory and maintenance costs.

Features and Benefits

- Enhanced protection from heat and plasma attack to extend component life
- Reduced particulation minimizes contamination, maximizes production yields, and reduces downtime
- Wide selection of proven thermoplastic and elastomeric materials for expanded application potential
- OpTegra™ integrated solutions reduce part counts, facilitate installation, and improve MTBR (mean time between repair)



ProTechna encapsulation technology

Applications

- Process doors
- Chamber lids
- Chamber gates

Available Materials

- Elastomers
 - Silicone 415
 - Liquid Silicone 480
 - Xyfluor® 870
 - FKM 709
 - Chemraz® 588
- Thermoplastics
 - PEEK 90G
 - PEEK 150G
 - PPS
 - PFA
 - Arlon® (1000, 2000, 1160, 2400)

Note: Temperature, chemical resistance, pressures withstood, etc., will vary with each individual application's requirements

Note: Color variations and dark spots that might be observed in Chemraz® parts are considered cosmetic and an inherent result of the polymer curing process. They are not foreign matter and not anticipated to adversely affect the performance of the part in service. Please contact a Greene Tweed applications engineer for additional information.

Contact Us

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