

## Greene Tweed FLUORAZÂ® 784 Fluoroelastomer, FEPM

Category : Polymer , Thermoset , Fluoropolymer, TS , Thermoset Fluoroelastomer , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

Sanitary gaskets made from FluorazÂ® 784 work well in Sip and CIP applications where a low durometer elastomer compound is needed. While EPDMs and FKMs can provide a seal for extended periods, changes in physical properties can have adverse effects beyond simple volume swell. A decrease in hardness or drop in modulus signals a reduction in compressive strength. If a sanitary gasket is retorqued to the installations specification, the gasket will be compressed at a greater level than desired, resulting in increased intrusion into the process stream. An increase in hardness/modulus and a drop in elongation means embrittlement. The seal will be undertorqued, resulting in either leaks or cracking. Fluoraz 784 is formulated for use in sanitary gaskets and other applications where low sealing force is required, such as sealing sight glasses or as a seal between nonmetal parts. Fluoraz 784 is FDA and USP Class VI compliant, making it a versatile compound for both pharmaceutical and other hygienic fluid handling applications. Fluoraz 784 metal and TOC extractables are an order of magnitude lower than premium competitive FKM formulations, ensuring little or no contamination into the process stream. Fluoraz 784 can be used as sanitary gaskets in standard applications as long as the torque used to install the gasket is minimal (hand tight). Fluoraz 784 is also available in O-rings and custom shapes where a low durometer hardness is desired. Information provided by Greene Tweed.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Greene-Tweed-FLUORAZ-784-Fluoroelastomer-FEPM.php](http://www.lookpolymers.com/polymer_Greene-Tweed-FLUORAZ-784-Fluoroelastomer-FEPM.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.56 g/cc | 1.56 g/cc | ASTM D297 |

| Mechanical Properties     | Metric    | English  | Comments                      |
|---------------------------|-----------|----------|-------------------------------|
| Hardness, Shore A         | 70        | 70       | ASTM D2240                    |
| Tensile Strength at Break | 19.82 MPa | 2875 psi | ASTM D1414                    |
| Tensile Strength, Yield   | 2.62 MPa  | 380 psi  | @ 100% Elongation; ASTM D1414 |
| Elongation at Break       | 342 %     | 342 %    | ASTM D1414                    |

| Thermal Properties               | Metric    | English  | Comments |
|----------------------------------|-----------|----------|----------|
| Maximum Service Temperature, Air | 232 Â°C   | 450 Â°F  |          |
| Minimum Service Temperature, Air | -6.67 Â°C | 20.0 Â°F |          |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Color                  | Tan   |          |

**Contact Songhan Plastic Technology Co.,Ltd.**

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