

Greene Tweed CHEMRAZ® 526 Perfluoroelastomer

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

Material Notes:

Greene Tweed's Chemraz® 526, a perfluoroelastomer, offers superior chemical compatibility coupled with explosive decompression resistance, making it the ideal compound for fluid handling equipment exposed to extreme chemical environments. Chemraz 526 has a temperature range from -4°F to 482°F (-20°C to 250°C). With its outstanding explosive decompression resistant capabilities, Chemraz 526 is well suited in a range of applications from pumps and valves to oilfield completion equipment. ED (explosive decompression) is a phenomenon that often occurs when high-pressure gas molecules migrate into an elastomer at a compressed state. When the pressure surrounding the elastomer is suddenly released, the compressed gas inside the elastomer tries to expand and exit the elastomer, thus causing ED. Most elastomers experience severe blistering or cracking when the forces of these expanding gases overcome the strength of the surrounding material. However, Chemraz 526 offers superior explosive decompression properties and the broadest chemical compatibility, e.g., better resistance to sour gas, acids, caustics, hot water and steam. Chemraz 526 is available for use as O-rings, gaskets and many other custom shapes. Applications: Pumps Valves Oilfield completion equipment Compressors Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-CHEMRAZ-526-Perfluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.92 g/cc	1.92 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	95	95	ASTM D2240
Tensile Strength at Break	17.8 MPa	2580 psi	ASTM D1414
Elongation at Break	100 %	100 %	ASTM D1414
Tensile Modulus	0.00396 GPa	0.575 ksi	@10% Elongation; ASTM D1414

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 °C	482 °F	
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	

Descriptive Properties	Value	Comments
Color	Black	

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