

Greene Tweed CHEMRAZ® 505 Perfluoroelastomer

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

Material Notes:

Chemraz® 505, a perfluoroelastomer, provides a broader range of chemical resistance than any other compound on the market. With a temperature range of -22°F to 446°F (-30°C to 230°C), Chemraz 505 is the elastomer of choice for more than 90 percent of the most demanding services found in the chemical process and refining industries. Chemraz 505 is ideal for processes taking place in subzero temperatures as well as for use in multi-substance plants or in mixed media due to its broad chemical resistance. Chemraz 505 is available for use as O-rings, gaskets and many other custom shapes. Because of its versatility, Chemraz 505 is often used as a standard compound and can be found in a variety of applications including acids, caustics, aldehydes, esters, aromatics, hot water, steam, amines, methanol, ketones, TBA and MTBE. Applications: Mechanical seals Valves Pump Housings Sampling/metering equipment Compressors Reactors Mixers Controls/instrumentation Sprayers/dispensers Couplings Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-CHEMRAZ-505-Perfluoroelastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.93 g/cc	1.93 g/cc	ASTM D297

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	ASTM D2240
Tensile Strength at Break	12.1 MPa	1750 psi	ASTM D1414
Tensile Strength, Yield	3.10 MPa	450 psi	@ 50% Elongation; ASTM D1414
	7.93 MPa	1150 psi	@100% Elongation; ASTM D1414
Elongation at Break	140 %	140 %	ASTM D1414
Compression Set	25 %	25 %	70 hours @ 400°F (204°C) @ 25% deflection; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	230 °C	446 °F	
Minimum Service Temperature, Air	-30.0 °C	-22.0 °F	

Descriptive Properties	Value	Comments
Color	Black	

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